

THE EFFECT OF CONSOLIDATING
TWO-LEVEL REPARABLE INVENTORIES
ON AGGREGATE INVENTORY REQUIREMENTS
AND MISSION CAPABILITY

THESIS

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Captain, USAF

AFTT/GLM/LAL/95S-2

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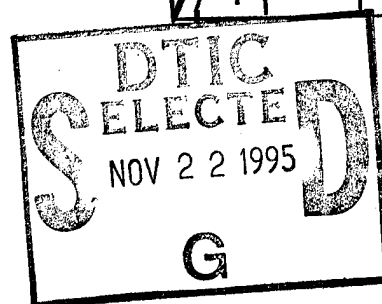
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THESIS

Presented to the Faculty of the Graduate School of Logistics
and Acquisition Management of the Air Force Institute of Technology

Air University

In Partial Fulfillment of the
Requirements for the Degree of
Master of Science in Logistics Management

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Abstract

One of the proposals of Lean Logistics is the relocation of many inventory assets to Intermediate Supply Points (ISPs). This research investigates the effect of consolidating Two-Level Maintenance designated reparable asset inventories. The effects of interest are the potential reduction in aggregate inventory requirement and resulting savings and the effect of delayed issue of the assets on mission capability. The metric selected to measure the effect on mission capability for this study is the Not Mission Capable/Supply (NMCS) rate.

A spreadsheet analysis of world-wide Two-Level Maintenance designated reparable asset demands over the study period is used to determine the effects of consolidation. The results of this study indicate that significant savings in reparable inventory requirements could be achieved through consolidation of these inventories. Further, this research indicated that the increase in NMCS rates resulting from overnight issue of the assets would be minimal.

This research concludes that conditions that mandated base level stockage of reparable assets have changed and are no longer a factor in the post cold war environment. Due to these changes, and the current constraints on the defense budgets, consolidation of reparable assets is a concept with potential for significant inventory reductions and savings that should be further developed.

THE EFFECT OF CONSOLIDATING TWO-LEVEL REPARABLE INVENTORIES ON AGGREGATE INVENTORY REQUIREMENTS AND MISSION CAPABILITY

I. Introduction

Chapter Overview

This chapter provides justification for this thesis by presenting the general issues surrounding traditional reparable pipeline, Lean Logistics, and two-level maintenance. The chapter then identifies the specific problem addressed by the thesis. The resulting research objective and research questions follow. Finally, it provides a summary of the methodology employed along with research assumptions and their justification.

General Issue

Throughout the majority of the second half of the twentieth century, the demands of the cold war shaped the logistics structure of the USAF. These demands included the preparation for both a nuclear attack and a short warning invasion of Western Europe with little time for preparation. The defense strategy that developed required large US combat forces to operate in forward locations at high states of combat readiness to confront the numerically superior forces of the Soviet Union and the Warsaw Pact. The support structure that evolved to support the required high states of combat readiness relied on base level self-sufficiency for the first 30 days of war. This policy implicitly tries to avoid excessive dependence on replenishment during the early days of combat, a policy apparently rooted in the belief that transportation will be scarce during such periods. (Abell 1993: v)

The collapse of the Soviet Union and the end of the cold war drastically changed the forces that shaped the US defense strategy and the resulting support structure. Replacing the Soviet threat of a massive invasion of Western Europe are smaller, less predictable regional threats scattered around the globe. Countering these threats will require strategies capitalizing on flexibility and mobility of combat forces and the logistics support structure.

Coincident with the end of the cold war, the US faces a massive national debt resulting from deficit spending in past years. Part of the solution to this debt has been large reductions in the Department of Defense budget termed as the "peace dividend." As a result, the military forces are undergoing an extensive drawdown, closing hundreds of installations, deactivating units and equipment. Today the Air Force can no longer afford the large spare parts inventories of the past, nor can it tolerate a support system that does not respond quickly and effectively to the increasingly unpredictable aftermath of the cold war.

In response to declining annual budgets, the Air Force is developing more efficient and business-like methods of supporting the remaining force through a group of initiatives collectively known as Lean Logistics (LL). Lean Logistics is a dramatically new approach to providing logistics support. Lean Logistics attempts to replace a decades-old logistics system with one that is state-of-the-art by adapting technological and management innovations that have been used in the commercial world and are relevant to the logistics support problems of the Air Force. In particular, LL replaces reliance on large stocks with reliance on extremely responsive repair and distribution. (Cohen, 1994: 1)

Today Two-Level Maintenance is one element in the LL architecture. Other elements that address the need for the reliable, high velocity transportation of reparable

include Repair and Return Packaging (R2P), Electronic Data Interchange (EDI), Just-in-Time (JIT) practices, and Door-to-Door Distribution (D3).

In the traditional, three-level maintenance structure, reparable components are repaired at the field, or second level, through the base repair cycle, and then returned to base supply as serviceable assets to await reissue. This structure requires an inventory of reparables sufficient to fill the base repair cycle and provide a safety stock in base supply to cushion against variability in demand. It also required a field level infrastructure (facilities, equipment, materiel, personnel) to support the repair of these assets. The inventory of reparables and the field repair infrastructure provide the bases with a high degree of self sufficiency, but at a high cost in terms of dollar investment, operating flexibility, and mobility.

The two-level maintenance concept was developed from recommendations for logistics support alternatives contained in the 1979 Defense Resource Management Review and implemented under DMRD 904 in 1993. Under the two-level maintenance concept, the responsibility for field level repair of aircraft reparables is transferred to the depot level. Reliable, high velocity transportation of the reparables from the base to the depot for repair and back to the base is a critical element required for the success of the two-level maintenance concept. This transportation is provided by commercial express carriers.

In the private sector, deregulation of the transportation industry in the US has decreased transportation costs while improving service. Simultaneously, an explosion in communications and electronic data management capabilities has provided transportation and inventory managers unparalleled access to real-time information. Reliable, high velocity, low cost transportation, and real-time information on status of materiel have changed the transportation and inventory practices of manufactures, retailers, and service organizations. Inventories have been reduced and Just-In-Time inventory management

practices adopted. The growth of the overnight freight industry allows greater service from smaller centralized inventories.

Specific Problem

The Air Force, in an ongoing effort to reduce the maintenance costs of its aircraft, has adopted the Two-Level Maintenance concept for many reparable aircraft spares. A reparable is an item designed so that it is capable of being repaired after it breaks. Typically, reparables are very expensive, with long procurement lead-times, which makes their repair cost-effective. Although out-numbered in sheer volume by consumable inventories, reparables represent the majority of inventory investment in the USAF supply system (Kettner 1992: 7). In the mid to late-1980s the Air Force spent roughly \$5 billion annually for these resources, about \$3 billion for spares procurement and \$2 billion for repair. (Abell 1993: 1) Two-Level Maintenance centralizes the repair of designated reparables to reduce redundancies in repair capabilities. Commercial express carriers are utilized to move the reparables from the bases to centralized repair facilities. Following repair, reparables are returned to base supply and held in inventory for reissue (Morrill 1995:15). Much of the Air Force's initial attention in implementing Lean Logistics focused on the reparable/serviceable pipeline and efforts to reduce days in the cycle through various initiatives (HQ USAF/LGM-2 1995: 2).

Another proposal under the Lean Logistics concept, which has received relatively little attention, is the introduction of Intermediate Supply Points (ISPs) to the existing distribution system and the relocation of the majority of base inventory assets to these facilities. Relocating assets to ISPs will theoretically provide asset managers with greater flexibility in distributing assets and possibility reduce the overall number of assets required in the system to maintain the same number of fully mission capable aircraft (Hill and Walker, 1994). There are several options for the location these consolidated inventories.

One option would place the inventories at the source of repair (depot or contractor facility). Existing facilities and information systems could be used to monitor levels. Another option is to centralize the inventories at a transportation hub where response times could be reduced, information systems simplified, and accountability improved. This option could be extended to contract the entire operation to a commercial entity for servicing, warehousing, control, and distribution, with commercial tracking systems. (HQ AFMC/LGM-2 1995:44). To date, very little research has focused on quantifying the effects of consolidating reparable inventories.

Several previous research projects have studied the effect of consolidation through the study of a very limited number of NSNs related to specific weapon systems. In a simulation study, conducted by Captains Hill and Walker at the Air Force Institute of Technology, only the continental United States (CONUS) movement of five reparable assets for the B-1 weapon system were considered (Hill and Walker 1994: 7). The C-5 Lean Logistics Demonstration evaluated the concept of operating a central storage facility and a command supply to monitor 24 NSNs at six C-5 bases (HQ AFMC/LGM-2). Coronet Duce evaluations provided similar information of reparable asset distribution and inventory requirements for the F-16. This research will add to the body of knowledge concerning the centralization of inventories by analyzing the reparable asset distribution and inventory requirements from a global inventory perspective rather than the perspective of individual weapon systems, Major Commands (MAJCOMs), or geographic regions.

The primary focus of this research is on the effects of eliminating the base-level inventories of reparable assets designated for Two-Level repair, and consolidating these assets in a centralized inventory. The areas of interest are the potential for reducing the aggregate inventory requirement through consolidation and the effect of delayed issue of the assets, overnight as opposed to immediate issue from an on-base inventory. Recent demand data for Two-Level reparable assets are used as the basis for evaluation of a

consolidated inventory distribution and to answer the investigative questions.

Additionally, institutional factors that foster the continuation of large base-level inventories are identified.

Research Questions

The following are the investigative questions concerning the distribution and inventory of Two-Level Maintenance reparable assets that this research will answer:

1. What effect would consolidation of Two-Level reparables to a central inventory and eliminating base-level inventories have on the aggregate number of inventory items?
2. What effect would overnight issue of reparables from a central consolidated inventory, rather than immediate issue a base-level inventory, have on aircraft mission capability rates?

Research Assumptions

This research is designed to analyze the feasibility of supporting all demands for Two-Level Maintenance reparables from a centralized inventory based on current peacetime demand. Because the research attempts to use the complete database of approximately 850 Two-Level Maintenance line items, and world wide demand data that exceeded 5000 demands per month during the period of the study, some basic assumptions must be made to make the calculations mathematically tractable. Listed below are these assumptions and the justification for their use in this research:

1. This research addresses Primary Operating Stock (POS) inventories used to support day-to-day operations only. Inventories identified as War Readiness Spares Kits (WRSKs), or Mission Spares Kits (MSKs), are not considered. Inventory levels for POS are computed based on the Repair Cycle Demand Level (RCDL) model used in this research while WRSKs, MSKs, and other prepositioned inventory levels are computed based on requirements for 30 days of wartime activity. Other research has previously

addressed the reduction/consolidation of WRSK, MSK and prepositioned inventories (Abell 1993:51)

2. A repair cycle time of 10 days is assumed, based on Lean Logistics operating objectives, for all reparable items for calculation of pipeline asset requirements. This repair cycle time is based on the Lean Logistics repair cycle time goals (HQ USAF/LGM-2 1995: 8)

3. The average issue and delivery time for reparable items will span from the middle of the flying/maintenance duty day to 0800 the following morning, or approximately 16 hours. Location of the inventories at commercial express carriers hubs should allow parts ordered as late as midnight to depart the hub on the next outbound movement for delivery the following morning.

3. Each base is assumed to aggressively use management actions such as cannibalization to maximize the number of mission capable aircraft and consolidate "holes" or missing components to the fewest number of aircraft on a daily basis. Such management adaptations are commonly practiced and have been shown to have a significant impact on aircraft availability (Abell 1993:38)

4. The use of WRSK, MSK and other prepositioned inventories to satisfy POS shortages is not assumed. Although the intermingling of POS and WRSK inventories is often practiced (Abell 1993:40), such an assumption would invalidate the evaluation of POS inventory strategies, which is the focus of this research.

5. Due to the volume of data and the requirement to perform repetitive mathematical computations, detailed analysis of individual stock number compatibility with aircraft type when more than one type aircraft is assigned to a base is not possible. As a result, an assumption is made that any stocknumber demanded by a base is usable on any aircraft assigned to that base.

Summary

This chapter established the focus of this research effort. First it reviewed the general issue of the challenges facing the Air Force logistics system in the post-cold war environment. The development of Lean Logistics in response to these challenges was examined and the focus of this research effort was established. Following this the research questions were presented along with the research assumptions and their justifications.

II. Background and Literature Review

Introduction

This chapter provides a review of the literature pertaining to the Air Force logistics, the reparable logistics pipeline, Lean Logistics, Two-Level maintenance, and other subjects needed to provide the background necessary to perform this study. The chapter begins with a definition of logistics and a description of the traditional Air Force logistics pipeline. Then, Lean Logistics concepts are introduced and followed with information on inventory strategy, retail level inventory system performance measures, and the financial management of reparable assets.

Logistics and the Three-Level Reparable Pipeline

Logistics. The following definitions provide different viewpoints of the term logistics and its application in the field.

Websters New World Dictionary defines logistics as "the branch of military science having to do with procuring, maintaining, and transporting materiel, personnel, and facilities" (Guralnik 1972: 832). This definition focuses on the military science application of logistics.

The seven Rs definition is often referred to as the lay person's description of logistics. The seven Rs define logistics as "ensuring the availability of the *right* product, in the *right* quantity and the *right* condition, at the *right* place, at the *right* time, for the *right* customer, at the *right* cost" (Coyle and others 1992: 6). This definition addresses the essential activities of logistics, the movement and storage of materiel, and places emphasis on cost and customer service.

The Council of Logistics Management (CLM), the largest and best known of the professional logistics organizations, provides the following definition of logistics:

Logistics is the process of planning, implementing, and controlling the efficient flow and storage of raw materials, in-process inventory, finished goods, services and related information from point of origin to point of consumption for the purposes of conforming to customer requirements. (Blanchard, 1992: 3)

This definition of logistics is applicable to both military and business aspects of logistics.

Another definition, provided by the Society of Logistics Engineers (SOLE), expands the definition of logistics to support the life cycle approach. SOLE defines logistics as:

The art of science and management, engineering, and technical activities concerned with requirements, design, and supplying and maintaining resources to support objectives, plans, and operations. (Blanchard 1992: 4)

A purely military definition of logistics is provided by the Compendium of Authenticated Systems and Logistics Terms, Definitions, and Acronyms published by the Air Force Institute of Technology. This publication defines logistics as:

The science of planning and carrying out the movement and maintenance of forces. In its most comprehensive sense, logistics pertains to those aspects of military operations which deal with (a) design and development, acquisition, storage, movement, distribution, maintenance, evacuation, and disposition of material; (b) movement, evacuation, and hospitalization of personnel; (c) acquisition or construction, maintenance, operation, disposition of facilities; and (d) acquisition or furnishing of services. (AU-AFIT 1981: 401)

More recently, logistics has been viewed on a much broader scale and the field of logistics has been growing at a rapid pace, stimulated primarily by the technological, sociological and economic trends in the world today. Systems and products have become more complex as technology advances. Logistics requirements have increased significantly in the past decade, but the cost of logistics support has also been increasing at an alarming rate. At the same time, the current economic dilemma of decreasing budgets combined with the upward inflationary trends result in less money available for the acquisition of new systems and/or for the maintenance and support of those systems already in use (Blanchard 1992: 3)

From these definitions it can be seen that logistics from the military view, has primarily been oriented to distribution and system/product support and has included the elements of maintenance planning; personnel; supply support; support equipment; technical data; training and training devices; computer resources support; facilities; packaging, handling, storage, and transportation; and the reliability and maintainability interface. In the industrial or commercial sector, business logistics has included such activities as material flow, product distribution, transportation, purchasing and inventory control, warehousing, and customer service (Blanchard 1992: 3).

In recent years, due to the technological, sociological, and economic trends, these two views of logistics have begun to blend. In his article "Military Logistics and Business Logistics: Reexamining the Dichotomy" Dr. Russell examined the differences and similarities between the two logistics and concluded that:

Both branches of the discipline have common logistics elements--inventory control, warehousing, packaging, transportation, distribution, etc. Both take a systems view of logistics. Both are now concentrating on issues of demand, databases, design, life cycle, and integration, although the focuses may vary. Both have a growing common vocabulary. Both look to logistics commanders for coordination, planning, and avoidance of sub optimization in logistics processes. (Russell 1994: 35)

He then offers the following observation:

It is not surprising that Sears and other firms turn to seasoned military logisticians for logistics leadership in the private sector. The old dichotomy is getting fuzzy. (Russell 1994:35)

Three Level Maintenance. The Air Force maintenance structure has traditionally been structured in three levels; organizational, intermediate, and depot. Organizational maintenance is performed at the operational site (airplane, vehicle or facility). Generally it includes tasks performed by the using organization on its own equipment. Organizational-level personnel are usually involved with the operation and use

of the equipment, and have minimum time available for detailed system maintenance. Maintenance at this level normally is limited to periodic checks of equipment performance, visual inspections, cleaning of equipment, some servicing, external adjustments, and the removal and replacement of some components. Personnel assigned to this level generally do not repair the removed components, but forward them to the intermediate level (Blanchard 1992: 115).

Intermediate maintenance tasks are performed by mobile, semi-mobile and/or fixed specialized organizations and installations. At this level, end items may be repaired by the removal and replacement of major modules, assemblies, or piece parts. Scheduled maintenance requiring equipment disassembly may also be accomplished. Fixed installations (permanent shops) are generally established to support both the organizational-level tasks and the mobile and semi-mobile units. Rapid maintenance turnaround times are not as imperative here as at the organizational level (Blanchard 1992:116).

Depot maintenance constitutes the highest level of maintenance, and supports the accomplishment of tasks above and beyond the capabilities available at the intermediate level. Physically, the depot may be a specialized repair facility supporting a number of systems/equipment in the inventory, or may be the equipment manufacturer's plant. Depot facilities are fixed and mobility is not a problem. Complex and bulky equipment, large quantities of spares, environmental control provisions can be provided if required. The high volume potential in depot facilities fosters the use of assembly-line techniques, which, in turn, permits the use of relatively unskilled labor for large a large portion of the workload with a concentration of highly skilled specialists in such certain key areas as fault diagnosis and quality control. Depot level maintenance includes the complete overhauling, rebuilding, and calibration of equipment as well as the performance of highly complex maintenance actions. In addition, the depot provides an inventory supply capability. The

depot facilities are generally remotely located to support specific geographical area needs or designated product lines (Blanchard 1992:116).

The Repairable Pipeline. The analogy of a pipeline is useful to visualize the flow of assets through the logistics system in the same way that liquid flows through a physical pipeline. A physical pipeline has properties such as routing, volume, and length. The routing shows the movement of assets through the various functions and processes of the logistics system. The volume indicates the quantities of assets in the system, and the length of the pipeline denotes the times involved with moving assets from one point to another (Bond and Ruth 1989: 5). The Air Force logistics pipeline consists of the acquisition, depot, base, and disposal subsystems. These subsystems contain the following components: supply, maintenance, and distribution (Bond and Ruth 1989: 3). The subsystems and components, taken together with the intervening transportation legs, comprise a basic view of the Air Force Logistics Pipeline. Materiel within the pipeline is defined as pipeline stock.

Pipeline stock is defined by The Official Dictionary of Production and Inventory Management Terminology and Phrases, a publication of The American Production and Inventory Control Society (APICS), as "inventory to fill the transportation and distribution system including the flow through intermediate stocking points" (Wallace and Dougherty 1987:23). It further describes the effect that pipeline stock has on total inventory investment. A larger, or longer, pipeline requires more resources; therefore, pipeline stock ideally should be the minimum quantity of assets that fills the system. The factors that affect this quantity are "order transmission, order processing, shipping, transportation, receiving, stocking, and review time" (Wallace and Dougherty 1987:23).

The RAND Corporation defines the pipeline for repairable spares as "a network of repair and transportation channels through which repairable and serviceable parts flow as they are removed from their higher assemblies, repaired, and requisitioned from other

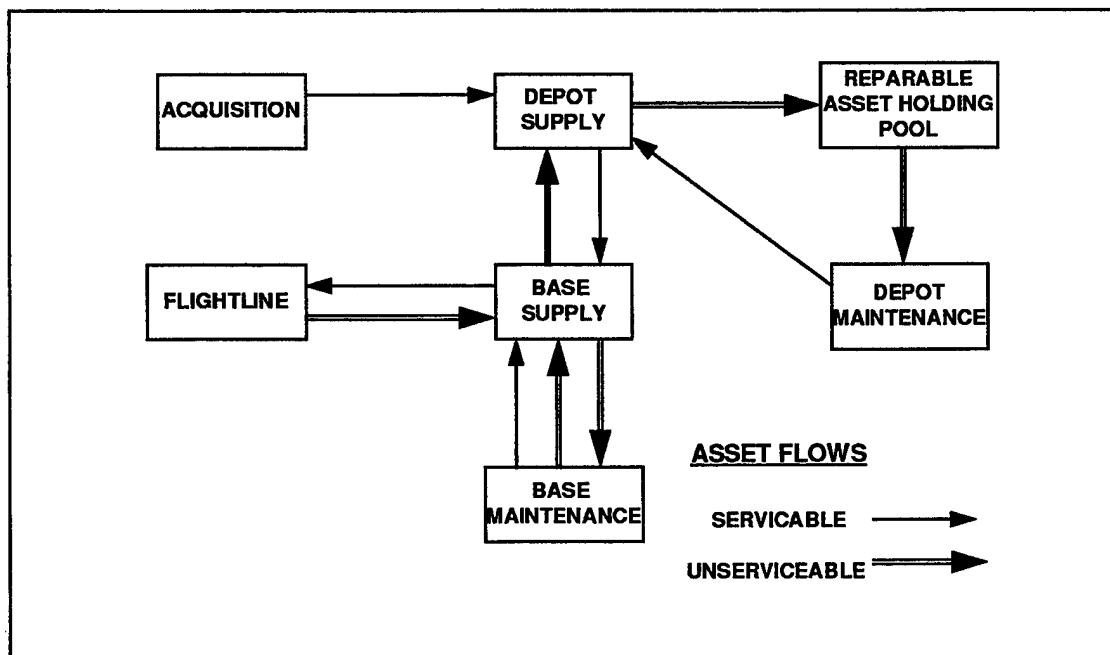
points of supply" (Isaacson and others 1988:xv). Identification of pipelines for reparable spares was a key element of the RAND model depicting the movement of reparable assets through various levels of supply and maintenance activities. It is important to note the distinction between "reparable" and "repairable". Reparable refers to the class of assets which are generally more economical to repair than replace. The term repairable describes the physical condition of the spare when it is broken (Bond and Ruth 1989: 6). The DYNAMETRIC model defines pipelines for reparables by total assets contained in the network. The model computes the expected quantity of assets in each "segment of the pipeline network" (Pyles 1984:11). The network includes base and depot-level repair, transportation channels between repair and supply facilities, and resupply transportation channels.

Reparable Item Management. Aircraft reparable items represent an important subset of the total population of Air Force supply materiel. There are approximately 180,000 reparable items in the Air Force inventories with a value in excess of \$30 billion (Bond and Ruth 1989:26). In the mid to late 1980s the Air Force spent roughly \$5 billion annually for these resources, about \$3 billion for spares procurement and \$2 billion for repair (Abell and others 1993: 1). It is important therefore to understand how these assets flow through the base repair cycle system and where this system fits into the logistics pipeline.

The base repair cycle is the first echelon of a multi-echelon system. Whenever a reparable item fails, a maintenance specialist identifies the broken part and orders a replacement from Base Supply. If a spare is in stock in Base Supply, it is issued to the maintenance activity to expedite end-item repair. The failed part is removed from the end-item (aircraft) and sent to an Intermediate-level maintenance shop to determine if base repair is authorized and feasible. If the item is repaired at the base-level, it is turned-in to Base-Supply as a serviceable asset and replaces the part previously issued. If the broken

item exceeds base repair capabilities, the item may be condemned or returned to Base supply as Not Repairable This Station (NRTS). If it is condemned, Base Supply sends the item to the Defense Reutilization and Marketing Service (DRMS) for salvage. If the item is returned as NRTS, it is held in Base Supply until appropriate shipping instructions are received to send the item on to the responsible Air Logistics Center (ALC) for Depot-level repair. The depot performs higher level repairs with the use of more sophisticated equipment and specialized skills. At the time of turn in for a NRTS item, a requisition to the depot is made to bring the base stock back to equilibrium for the original item issued (Bond and Ruth 1989:26). Figure 1. depicts the overall logistics pipeline and how the various segments are related to one another.

FLOW OF SERVICABLE AND UNSERVICABLE REPARABLE ASSETS



(Kettner and others 1992: 7)

Figure 2-1. Three-Level Maintenance Reparable Pipeline

Although the goal of the Standard Base Supply System (SBSS) is to ensure that supplies are available when needed to keep a high level of mission capability, there are times when shortages may occur (AFM 67-1 1988:17-9). When this occurs with a reparable requisition, if the item is base repairable, it is repaired and replaced back on the end-item. The end item repair, however, is delayed by the time required to repair the part. If the broken item is not base repairable, then a demand is placed on Base Supply, creating a backorder requisition to the depot for a serviceable asset. Simultaneously, the unserviceable asset is sent from the base to the depot for repair (Bond and Ruth 1989:29).

When a spare is issued from Base Supply to maintenance, a clock starts to track the repair cycle time. When the failed item is turned-in to Base Supply, whether in a serviceable, NRTS, or condemned condition, the repair cycle time ends as supply processes the turn-in. The repair cycle time is strictly monitored and recorded by the maintenance and supply activities (Bond and Ruth 1989:30).

Inventory managers at the base-level, in conjunction with depot-level inventory managers, work to provide assets to using repair organizations and operational units when and where needed. Depot supply is the central source of supply for numerous detached units and operational bases. Depot supply activities coordinate with the acquisition system to ensure adequate resupply of consumable and reparable items. Supply inventory levels are replenished through a network of government contractors, depot repair facilities, and redistribution of base assets. The base supply system computes requirements at the local level, maintains quantities to provide desired service levels and issues assets to base organizations as required (Bond and Ruth 1989:13). The base stockage level is for reparables is computed using the Repair Cycle Demand Level (RCDL) model.

The Repair Cycle Demand Level. The RCDL inventory model, which manages the one-for-one requisitioning of reparable items to the depot, was developed in the 1960s (Christensen and Ewan 1985:21). The RCDL treats each item independently

and is used to establish spare stockage levels in the SBSS according to the demonstrated repair capabilities of each individual base. The RCDL model does not attempt to minimize or maximize any measure of performance. The stock levels are set to fill pipelines for both the time an asset is in the repair and depot-to-base replenishment cycles, with a safety quantity added for protection against stockouts (Blazer and others 1984:1). The quantity stocked, s , is given by the formula:

$$s = RCQ + OSTQ + NCQ + SLQ + K$$

where: RCQ = repair cycle quantity

OSTQ = order and ship time quantity

NCQ = NRTS/condemned quantity

SLQ = safety level quantity

K = constant, .5 if unit cost is greater than \$750, or .9 if unit cost is \$750 or less

(AFM 67-1:11-13)

The SLQ compensates for the fact that the RCDL model assumes demand is constant or does not allow for demand variability (Kuntzke and Turner 1982:22). The model uses a normal distribution (for ease of computation and mathematical tractability) for computing SLQ with the square root of $3 \times "s"$ equal to one standard deviation. This gives a three-to-one variance-to-mean ratio (and Turner 1982:22). The variance-to-mean ratio is the measure of dispersion or variability of demand about the average or mean demand. When computing a stock level of $"s" +$ one standard deviation the model is attempting to achieve an 84 percent service level (for the normal distribution). That is, 84 percent of the demands are filled from on-hand stocks while replenishment stock is in both repair cycle and depot-to-base pipelines. This 84 percent service level is achieved with a C factor (standard deviation) of one. To increase the service level, a higher C-factor, $C =$ two or three is used (Christensen and Ewan 1985: 4).

Each of the above quantities is given by the following formulas:

$$RCQ = DDR \times PBR \times RCT$$

$$OSTQ = DDR \times (1 - PBR) \times OST$$

$$NCQ = DDR \times (1 - PBR) \times NCT$$

$$SLQ = Cx \sqrt{3x(RCQ + OSTQ + NCQ)}$$

where:

$$DDR \text{ (daily demand rate)} = \frac{\text{cumulative recurring demand}}{\text{max of (180, current date - DOFD)}}$$

$$PBR \text{ (percent base repair)} = \frac{\text{number repaired units} \times 100}{\text{sum units repaired, NRTS, condemned}}$$

$$RCT \text{ (repair cycle time)} = \frac{\text{sum repair days}}{\text{number repaired}}$$

$$NCT \text{ (NRTS / condemned time)} = \frac{\text{sum NRTS / condemned stock}}{\text{number NRTS / condemned}}$$

$$OST \text{ (order and ship time)} = \frac{\text{sum depot - base ship days}}{\text{number of receipts}}$$

$C = C$ factor or number of standard deviations to protect against stockouts

(Christensen and Ewan 1985: 5)

The Two-Level Maintenance Concept

The Two-Level Maintenance concept was developed from recommendations for logistics support alternatives contained in the 1979 Defense Resource Management Review and implemented under DMRD 904 in 1993. This study focused on "logistics support alternatives." In this report, the author, Donald B. Rice, offers the following observation concerning previous logistics support studies.

The focus of these studies has changed to reflect the [Defense] Department's increasing concern with readiness and sustainability. Their recommendations, however, have sought to increase effectiveness primarily by increasing the level of resources input to the current support structure. This appears to be prohibitively expensive because current structures seek to provide combat units with a high level of self-sufficiency as the means to ensure that forces can be employed in the widest possible range of combat scenarios. Alternatives which involve modifying these structures have received comparatively little attention. (Rice 1979:43)

Among the conclusions reached by this report concerning logistics alternative structures were that:

The complexity of conventional weapons employed by all the services has increased dramatically in the postwar [Viet-Nam] era, as have acquisition and support costs. It appears that all will continue to increase . . . Support Organization and structure are affected directly by changes in weapon technology. Because these changes increase the requirements for test equipment, personnel skill levels, and the like, and are making support increasingly expensive; we cannot afford to man and equip each individual unit to accommodate potential peak demands. In addition, the skills needed to maintain these complex systems are and will continue to be in short supply. Hence, while technology is strengthening our armed might, it is also increasing the complexity of logistics support. The design of logistics support structures must be revised accordingly. (Rice 1979:47)

Another conclusion, related to the effect of support structure design on combat effectiveness is that:

If combat units are to be maneuverable and flexible, they should not be encumbered by activities that are not linked directly to their combat mission. Furthermore, combat mission goals should not have to compete with functional goals. To meet this objective, the units should retain responsibility and organic capability for only a limited range and depth of support activities. (Rice 1979:47)

The 1979 Defense Resource Management Study evaluated the logistics support operations of a number of combat units including Tactical Air Command and USAFE A-10 fighter wings, and Strategic Air Command B-52G, B-52H, Bomber and KC-135 Tanker wings. The study's recommendations for changes to the logistic support structure included:

- Focus the maintenance capability of combat units (Army divisions, Navy and Air Force wings) on quick-turnaround repair, limiting their need to perform off-equipment maintenance.
- Consolidate off-equipment maintenance at a level that permits capture of economies of scale and reduces the vulnerability of support resources.

Nearly a decade following the 1979 Defense Resource Management Study, the Air Force began selectively implementing a Two-Level Maintenance policy, removing the responsibility for intermediate (field) level repair from the operational wings. Under the

Two-Level Maintenance concept, the responsibility for field level repair of aircraft reparables is transferred to the Depot-level. Figure 2. depicts the flow of reparables under the Two-Level Maintenance concept. Reliable, high velocity, transportation of the reparables from the base to the depot for repair and back to the base is a critical element required for the success of the Two-Level Maintenance concept. Today Two-Level Maintenance is one element in the Lean Logistics (LL) architecture. Other elements that address the need for the reliable, high velocity transportation of reparables include Repair and Return Packaging (R2P), Electronic Data Interchange (EDI), Just-in-Time Practices (JIT), and Door-to-Door Distribution (D3).

FLOW OF SERVICABLE AND UNSERVICABLE REPARABLE ASSETS

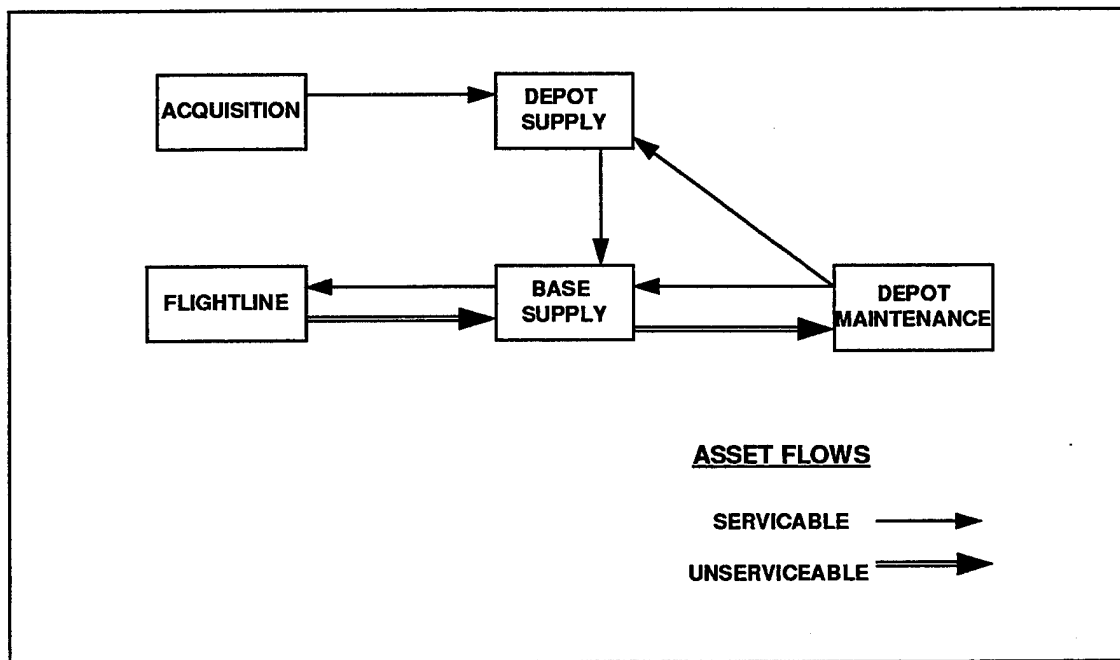


Figure 2-2. Two-Level Maintenance Reparable Pipeline

The successful use of commercial transportation, demonstrated through the implementation of Two-Level Maintenance, served as the foundation for the Air Force's increasing use of other modern business practices, collectively known as Lean Logistics.

The Evolution of Lean Logistics

Lean Logistics is defined in the USAF Baseline Lean Logistics Master Plan and Road Map, as:

. . . an Air Force program that includes a number of complementary initiatives, all focused toward improving operational capability by integrating and applying state-of-the-art business practices across all logistics functions and processes. Lean Logistics provides a logistics system that (1) fully meets all mission effectiveness goals given the uncertainty of missions, *OPTEMPO*, and resulting repair requirements, (2) is more responsive to customers, and (3) is cost effective.
(HQ USAF/LGM-2 1995: 7)

Lean Logistics has become one of the latest concepts in the Air Force's efforts to effect large improvements in reparable item management within the Air Force. Although there are many proposed structural, organizational, and systemic changes in reparable management under LL, successful implementation of LL will require a fundamental change in the way that logistics people think. For example, the focus of management attention must shift from outputs to outcomes. Rather than ensuring a high utilization rate of a given machine or a given shop, managers and workers will need to focus on repairing the right assets at the right time in the right quantities to satisfy demands (Hill and Walker 1994: 23). Lean Logistics is a dramatically new approach to providing logistics support. Lean Logistics attempts to replace a decades-old logistics system with one that is state-of-the-art by adapting technological and management innovations that have been used in the commercial sector and are relevant to the logistics support problems of the Air Force. In particular, LL replaces reliance on large stocks with reliance on extremely responsive repair and distribution (Cohen and others 1994: 1).

Lean logistics adapts to the USAF logistics system many of the methods that have allowed private firms facing dynamic marketplaces to become increasingly agile and efficient. In particular, lean logistics borrows from an integrated set of business innovations that has been termed "lean production." Production in this context is not meant to imply that these practices apply to manufacturing only; rather, lean production affects all processes related to a product throughout its life cycle, from design to production and distribution, and to engineering support (Cohen 1994: 2).

In contrast to mass production methods, lean production methods were developed to cope with a dynamic global marketplace in which customer needs, and competitive threats, can change very rapidly. To succeed in such an uncertain environment, firms need to possess unprecedented responsiveness, flexibility, and economy of effort. They can no longer rely on the traditional business methods of product standardization, long design cycles, and long production runs, by which they were able to achieve dominance in a relatively stable market place. In a highly dynamic marketplace, these traditional methods become ineffective and ultimately inefficient. Firms must adopt business practices that continually seek to increase flexibility while lowering costs. In general, these practices involve simplifying and more closely integrating business processes. Simpler, more integrated production systems are less expensive, require less infrastructure, and can respond more quickly to changes in the environment or customer needs (Cohen and others 1994: 3).

Lean Logistics initiatives generally place less reliance on a richness of spares and take greater advantage of more flexible resources, such as maintenance and transportation. This strategy derives logically from the difficulty and cost of a mass production strategy that would attempt to provide ample quantities of spares to allow the system to cope with the uncertainty in demand, and transportation and repair times that it might face. Recent uncertainties surrounding both budgets and missions make the excess inventories

produced by the mass-production solutions unpalatable. The Air Force can no longer afford large inventories, nor can it tolerate a support system that does not respond quickly and effectively in the increasingly unpredictable aftermath of the Cold War.

Lean Logistics seeks to introduce Theory of Constraints and Just-In-Time concepts into the repair and remanufacture of reparable assets to reconfigure the production from a "push" system to a "pull" or a demand based system. All of the distribution activities are performed to meet aircraft availability goals, lower inventory levels, reduce costs, and create simpler and more responsive operations. The fundamental structure of the current logistics pipeline is not affected by the changes proposed under Lean Logistics. However, various operations within the depot, base, and transportation pipeline segments are virtually reengineered (Hill and Walker 1994:22).

Theory of Constraints. The primary change that Lean Logistics institutes in the depots involves the repair process. Lean Logistics attempts to reengineer depot repair processes by identifying and eliminating production bottlenecks using the Theory of Constraints (TOC) philosophy. The Theory of Constraints is a continual improvement philosophy that focuses on the identification and management of constraints for organizational goal achievement. In most organizations, a small number of constraints govern the overall level of performance. If these few constraints can be relieved, the entire organization's performance can be improved. In a systematic way, TOC attempts to move materials quickly and smoothly through the various resources of a plant in concert with market demand (Tersine 1994:426).

Just-In-Time Philosophy. In a Just-In-Time (JIT) system, an item is produced Just-In-Time for it to be used by the next process in the system. A primary goal under JIT is to reduce the cost associated with maintaining inventory, by reducing inventory to a minimum. The JIT philosophy encourages solving the entire spectrum of production problems, not covering them up with excess inventory, safety stock, or padded lead times.

The JIT approach can be considered as the opposite of the more conventional just-in-case approach, where operations are managed expecting something to go wrong. The just-in-case approach provides contingencies to cover all eventualities, and the contingency is usually excess inventory (Tersine 1994:417). The JIT approach is often noted as a "pull" approach to inventory management. This is the opposite of the conventional "push" inventory management system. Distribution inventory systems can be classified as pull or push systems. In a pull system, each distribution center decides what is needed and orders its own requirements from its source, pulling inventory to itself. In a push system, the master or central distribution center determines the needs of each location and sends these requirements or orders through the distribution channel, pushing inventory to the local center (Tersine 1994:460).

LL and the Depot Activities

Under the traditional batch processing methods of repairing reparable assets at the depots, repair required and average of 63 days (HQ AFMC/LGM-2:8). Using the Theory of Constraint philosophy to focus attention on streamlining depot repair processes, LL is reducing that time to a goal of five to twelve days (HQ AFMC/LGM-2:9). AFMC studies indicate that the majority of "depot repair cycle time" is actually time the asset spends in repair and transportation queues waiting for induction into repair. Lean Logistics will also focus repair attention and resources on those assets that will improve aircraft availability for various weapon systems. Therefore, although there will be more setup and preparation involved for the repair of each asset on a unit repair basis, critical assets will be repaired more quickly (Hill and Walker 1994:29).

LL and the Depot to Base Interface

The primary changes proposed under LL in the depot to base interface segments of the pipeline involve the introduction of fast transportation and intermediate warehouse supply.

Fast Transportation. The traditional military transportation system is a patchwork quilt of functions and responsibilities that optimizes component parts at the expense of system efficiency. Furthermore the distribution process has a fragmented focus. Many of the nodes measure performance differently, and none uses what many regard as the most important measure, customer satisfaction (Halliday and Moore 1994: 2). The delivery of small packages via military cargo aircraft means extended flow times. Due to the relatively small scale of base level shipments compared to the large scale of the aircraft, waiting occurs in order to obtain large, economically viable cargo loads. Increasing the scale so that shipment costs do not get out of hand decreases flow times. Delaying the shipment of expensive components causes the system to stock more of them. Commercial carriers are able to improve their scale by serving multiple customers.

In the private sector, deregulation of the transportation industry in the US has decreased transportation costs while improving service. Simultaneously, an explosion in communications and electronic data management capabilities has provided transportation and inventory managers unparalleled access to real-time information. Time reliable, low cost transportation and real-time information on status of materiel have changed the transportation and inventory practices of manufacturers, retailers, and service organizations. Inventories have been reduced and Just-In-Time inventory management practices adopted. The growth of the overnight freight industry allows greater service from smaller centralized inventories.

Fast, reliable commercial transportation means that reparable assets ordered from depot will be shipped to the requiring base within one to three days, depending on the location of the base. Continental U.S. bases should receive assets in one to two days, while overseas shipments may require up to three days. Reduced in-transit times will result in higher shipment cost but still offer savings by decreasing the number of assets required in the pipeline to maintain asset availability (Hill and Walker 1994:30).

Furthermore, fast transportation is less variable than the military transportation, resulting in lower requirement for safety stock to protect against variability in transportation time.

When transportation time is longer and or more variable, more stock is needed. The more stock that is needed the greater the costs; not only for the stock itself, but also for the managers, clerks, warehouses, material handling equipment, and information systems needed to manage and account for it. Even more troublesome, stocks depend on forecasting that is inevitable inaccurate, especially in wartime (Cohen and others 1994: 9).

Intermediate Supply Points. A fundamental decision in distribution management is the placement of inventory. Forward placement means locating the inventory near the point of consumption or sale. Alternatively, rearward placement means holding the inventory at the point of manufacture. The advantages of forward placement include immediate delivery and reduced transportation costs achieved through bulk shipments. A major advantage of rearward placement is the pooling effect. The demand in one location may be unpredictably high one period and low the next. If the demands of several locations are pooled, the high demands of some locations will be offset by the low demands in others. Demand is less erratic and more predictable when inventory is centralized and inventories for the whole system can be lower.

Inventory Consolidation in the DOD. The primary reason for ISPs is to allow the Air Force to minimize the number of reparable assets in the system by reducing the number of stocked reparables at any given base and locating the ISP where it can rapidly

respond to base demands. Consolidation allows lower total aggregate stockage of low demand items, such as reparable. Without consolidation, these reparable must be stocked at many locations "just-in-case." Through consolidation, a few, or even one, asset can satisfy the demands of several low demand locations. There are several proposals for the location and operation of centralized inventories.

In order to minimize initial capital investment, HQ AFMC personnel are evaluating the idea of co-locating ISPs with current depot storage facilities (Hill and Walker 1994:30). The RAND Corporation suggests the establishment of Command Supply Centers (CSC). Under this proposal, repaired items from the contractor or organic shops would move immediately (via air express) to the CSC located at the express carriers' hub. Subsequent demands for material would be satisfied from the CSC stocks, while the failed item was being moved and repaired in the depot shops. The operational commands would maintain sufficient material at the CSCs to respond immediately to demands from the bases and to guard against delays in the retrograde movement and depot repair processes. Bases would only have sufficient material to protect against the short-term delays needed to deliver items from the CSC to the bases (Cohen and others 1994: 6).

Inventory Consolidation in the Private Sector. The concept of centralizing stocks is not unique to the DOD. In Seattle the Boeing Company's new Boeing Spares Distribution Center adjacent to the Seattle Tacoma International Airport consolidates five parts warehouses. A recent Aviation Week & Space Technology (AW&ST) article reports that the Boeing Spares Distribution Center provides "next flight" response for critical and Aircraft-On-Ground (AOG) parts requests. On September 1, 1994 Boeing committed to "next day" shipment of all standard parts orders. Boeing expects this policy to save airlines millions of dollars in spares inventory carrying costs annually, and allow them to transition from a "just-in-case" to a "Just-In-Time" spares policy. In addition, the

policy is expected to help the airlines achieve a higher aircraft availability rate (Proctor 1995:24).

Elimination of excess and nonproductive inventory, a huge financial burden on major airlines, is becoming a higher priority as carriers press their search for competitive cost advantages. Another recent AW&ST article reports that Delta Air Lines recently took a major step toward reengineering its inventory system. It sold about \$360 million worth of spare parts, including accessories, avionics, and engine components, to Avatar Alliance L.P. of Stratford, Connecticut. The Delta inventory that was sold will form the basis for Avatar's entry into the remarketing business. With that inventory base, Avatar, overnight, will become one of the aviation industries largest parts redistributors. In effect, Delta became the launch customer for Avatar, which expects to sell some of the parts back to Delta. Through this reengineering process, Delta is moving toward the same kind of system that many aerospace companies have adopted: Just-In-Time or JIT is the delivery, or in the case of an airline the receipt, of parts within hours of when they are needed. Some other airlines are turning to pooled or leased inventories to achieve cost saving economies of scale (Velocci 1995:29). In the article, Kevin Michaels, a senior associate of The Cannon Group Ltd., a Park City, Utah based aviation consulting firm, reports, "This is just the bow wave of a major industry trend that's emerging. Airlines worldwide are focusing on asset management as never before, and you will see a significant shedding of inventory in the next few years."

The Ethan Allen Furniture Company provides another example of the pooling effect. Originally, each of the 40 retailers of Ethan Allen products in the New York metropolitan area maintained its own inventory. The aggregate inventory value averaged \$3 million, and customer service was poor. The probability that all items in a customer's order were on hand was only 25 percent. Ethan Allen solved this dilemma by creating one large field warehouse to serve all 40 retailers. The retailers no longer need to carry

separate inventories, except for display purposes. Inventory dropped to \$700,000, and the probability of filling a customer's order from the field warehouse inventory increased to 80 percent (Krajewski and Ritzman 1993:499)

Quick Response Logistics

Quick response logistics, pioneered by the textile and apparel industry, is a combination of JIT philosophy, information technology, and customer service commitment. Changes in the consumer marketplace in recent years have been so profound that retailers and their vendors have almost no room for error in satisfying customer needs. Born out of heightened competition in both the domestic and world markets, and made possible by advances in technology, the Quick Response concept may help turn American industry around in the 1990s (Coyle and others 1992:80).

Within the Air Force, the responsiveness of the logistics system has been the subject of much debate and study. In his paper, The Logistics Dilemma, Colonel Corcoran states "Under the current system, we operate two logistics systems [wholesale and retail] which appear to have almost diametrically opposed goals" (Corcoran 1992:16). Another organizational deficiency cited by Colonel Corcoran is the lack of any meaningful wholesale/retail system interface and the lack of a system to integrate logistics requirements into a common priority system. "The present system of fragmented responsibility," states Colonel Corcoran, "has created a cottage industry for contractors who produce new ways of doing business that, while of benefit to the community involved, do not necessarily meet Air Force needs." In the article he also noted that:

There is an unhealthy emphasis on the use of Mod-METRIC models to make many micro decisions. Various contractors encourage this, as it leads to the development of sophisticated systems dependent upon models. The problem with this approach is that Mod-METRIC models have little or no validity in predicting failures or requirements when a small number of aircraft are involved. The models are useful in predicting failures for the entire F-16 fleet, have some validity at large primary authorized aircraft (PAA) F-16 wings, and will have almost no predictive

value in small PAA composite wings. The models use average data over time and no unit is average. This is a lesson sometimes forgotten when contractors pitch their models. It is interesting to note that these types of models are primarily pushed in the wholesale world in what appears to be an attempt to reduce the ability of the retail system to influence repair and distribution. (Corcoran 1993:17)

In response to perceived unresponsiveness of the wholesale logistics system, the retail logistics community has resorted to a number of coping strategies. Colonel Corcoran also comments on these:

The constant search for 100 percent mission capability leads to many and sundry abuses of the logistics system. Bases constantly try to subvert the system by double ordering parts, inflating the priority of requirements, reporting false mission capabilities (MICAPs), conducting lateral support searches for critical parts, and refusing to honor lateral support requests or item manager redistribution orders . . . All these things get done to influence the wholesale distribution system in such a way as to benefit their base. MAJCOMs also participate in this effort as they attempt to bias the system for the benefit of their commands. All of these efforts are made in good faith, but the question is whether or not the Air Force as a whole benefits when the distribution system is subject to intensive gaming by all participants. (Corcoran 1993:17)

For the Air Force the RAND Corporation, in a 1993 study, Estimating Requirements for Aircraft Recoverable Spares and Depot Repair, proposes Quick Response as a management adaptation to reduce the processing, handling, and transportation times in the logistics system (Abell and others 1993:vii). In this study, RAND applied Quick Response to prioritize handling of assets in all phases of the depot repair pipeline with the exception of the number of days actually spent in repair. The study estimated that the Quick Response option would reduce the total depot turnaround time for reparable by roughly 45 percent (Abell and others 1993:34).

Two other initiatives have been proposed to restructure the wholesale and retail logistics systems within the Air Force. These are the Distribution and Repair in Variable Environments (DRIVE), and the Coupling Logistics to Operations to Meet Uncertainty and the Threat (CLOUT) initiatives. Both DRIVE and CLOUT seek to shorten and

simplify the logistics pipeline to reduce operating cost and enhance responsiveness and service. Elements of both DRIVE and CLOUT are incorporated in many of the Lean Logistics concepts.

DRIVE. Distribution and Repair in Variable Environments (DRIVE) was developed as an alternative to the current logistics system and takes a very different approach to the support problem. It uses a current snapshot of the asset position, coupled with aircraft availability goals specified by mission/design-base combination; e.g., F-15s at Langley AFB would have an availability goal. User-specified scenario data (goals, force beddown, flying hours, etc.) are combined with item characteristics from several standard Air Force Logistics Command data systems to support DRIVE's decision making about prioritization of repair within repair resources and the allocation of serviceable assets to locations worldwide.

Basically, two kinds of output are produced by DRIVE, a list for use by shop chiefs, schedulers, and others, and an allocation list for use by the item manager in allocating assets to users. The lists are constructed so that actions are sequenced in order of their contribution to the probability of meeting all the availability goals, taking explicit account of item repair cost (Abell and others 1992:vi).

CLOUT. The CLOUT (Coupling Logistics to Operations to Meet Uncertainty and the Threat) initiative identified techniques to enhance the flexibility, robustness, and responsiveness of the logistics system in the theater, at the Air Logistics Centers, and in command and control systems (Cohen and others 1991: 1). The first principle behind these techniques is that logistics operations must be based on demands as they become known in real time, and as they are predicted more reliably over very short time horizons. While misallocations are inevitable, one powerful tool for dealing with them is to reduce response times. When unanticipated demands occur, a support system with very short response times can mitigate the effects of such misallocations through lateral supply, very

timely depot replenishment, or other management actions. Shorter response times also reduce the pipeline length, thereby reducing safety stock requirements and total spares investment costs. With their focus on very short planning horizons, CLOUT techniques would be especially sensitive to rapidly changing needs. In high-intensity warfare, CLOUT techniques would give those directing wartime operations the flexibility to employ units in accordance with dynamic operational urgencies (Cohen and others 1991:16-17).

Air Force Logistics Performance Measures

The importance of relevant and meaningful performance goals cannot be overemphasized. As Eliyahu M. Goldratt observed in The Haystack Syndrome, "Tell me how you measure me and I will tell you how I will behave. If you measure me in an illogical way do not complain about illogical behavior" (Goldratt 1990:26).

The current logistics process is a patchwork quilt of functions and responsibilities that optimizes component parts at the expense of system efficiency. It is not an integrated activity. The complexity and segmentation tend to give the distribution system a vertical rather than a horizontal focus. Each stage of the process tends to concentrate on its own function. The managers are interested in meeting their performance measures, perhaps to the detriment of the overall system performance (Moore and others 1993:xi).

Traditionally, inventory managers have tried to maintain a sufficient level of inventory to achieve some desired customer service level. Often, service is measured in terms of issue effectiveness. This philosophy drives organizations to high inventory levels (Kettner and others 1992: 5). Since the 1960s, a great deal of effort has gone into developing and refining inventory models based on the traditional repairable pipeline model. While models of this type are very good for computing stockage requirements, they were never designed (nor intended) for actually being used as the basis for managing

and improving/refining current logistics processes. When inappropriately used, these models can easily misdirect a logistician's efforts toward managing by fixed standards, rather than attempting to improve the intrinsic behavior or the process. When this occurs, logisticians fall into the trap of trying to optimize their portion of the pipeline without regard to potential impacts of the overall system. However, local optimization does not ensure global optimization. (Kettner and others 1992: 7).

Analysis of managerially oriented pipeline studies revealed that, although many models of the reparable pipeline exist, most are limited in scope to those portions of the pipeline directly under the sponsoring organization's control. This limitation resulted in entire segments of the reparable pipeline (and their linkages) receiving little or no management attention (Kettner and others 1992: 8).

An example of this sub-optimization was published by Perry in 1991 in a survey of DOD remanufacturing organizations. A significant finding from his examination was that DOD remanufacturing organizations focused too much on the actual cost of repairing an asset, and resource utilization. In contrast, the associated inventory investment, driven by the efficiency of the remanufacturing process, received too little emphasis (Perry 1991:42). As Perry noted, this misplaced emphasis was:

... a result of basic scheduling and lot sizing decisions which were made to increase remanufacturing efficiency at the expense of inventory investment. Measured lead times in the DOD components surveyed were substantially overstated relative to engineering standards ... these actual remanufacturing times were approximately double (202%) the established standard times. (Perry 1991:43)

In 1990, Hamblin directly addressed the Air Force's traditional inventory management performance measures. In concluding his research report, Hamblin suggests:

Additional research should be conducted on the military's performance measurement systems. These too are based on traditional concepts of inventory management; and they can be dangerously misleading. Base-level measurements include, but are not limited to, stock and issue effectiveness rates, on-time delivery

rates, and MICAP rates. Wholesale measurements include but are not limited to, fill rates, time standards for processing requisitions, and depot processing time. These indicators do not measure what is important. (Hamblin 1990:46)

Hamblin also makes the following important observation concerning internal performance measures and improved aircraft availability:

The military establishment has a fixation with internal measures, and that fixation causes us to downplay or ignore those external measures that mean the most to the customer - product quality, customer satisfaction, flexibility, quality response time, and, most importantly, improved aircraft availability. These types of measures are the real drivers that show how well the distribution system supports the operational commands. (Hamblin 1990:46)

In response to suboptimization of the logistics support system such as those examples cited by Kettner, Perry and Hamblin, the Air Force has moved toward the adoption of outcome goals to replace traditional output goals. One of these outcome goals is the Aircraft Availability goal.

Aircraft Availability Goal. The idea of using aircraft availability goals to prioritize actions to be taken by the logistics infrastructure is not new. Over the years it has become clear to many senior Air Force logisticians that the existing prioritization systems and mechanisms were inadequate to implement all of the nuances of judgment that a human decision maker would apply in situations involving support choices. Often the best that can be done is to specify an ordinal ranking of units, missions, bases, and aircraft types, in hopes of conveying to the logistics infrastructure some sense of their relative importance. These rules themselves have to be quite complicated to be effective models of the judgments they are intended to represent.

Aircraft availability goals and specified probabilities of meeting those goals, coupled with computational mechanisms to translate them into prioritized actions, provide a much more sensible, simple, and consistent criteria to support judgments about priorities (Abell and others 1992:18). The aircraft availability goal measures the relative importance

of the weapon system based on the operational priorities of the base, and it explicitly links the distribution process to those priorities. Some systems are going to be more important, or demand more attention, than others. With aircraft availability goals those decisions can be made. Aircraft availability goals are fundamental to distributions concepts such as DRIVE and CLOUT in determining combat capability. These goals are assigned by model design series (MDS) and by location. They are weapon system specific, so their use would allow the distribution system to respond on short notice, whether for war, low-intensity conflict, exercises, or budget cuts. This would allow the logistics community to respond to operational priorities rather than rely of existing priority schemes that are not useful in discriminating between competing missions, weapon systems, units, and locations (Hamblin 1990:33)

John B. Abell in the introduction to the DRIVE report recommends adoption of aircraft availability goals and further states:

The move to a system whose objective function is aircraft availability will be a culture shock to the Air Force logistics system. It implies less emphasis of traditional measures of system performance such as MICAPs (parts shortages affecting mission capability) and AWP (numbers of parts awaiting repair parts). Traditional measures of performance should be subordinated to aircraft availability. This change will have important implications to logistics managers throughout the system. (Abell and others 1992:vi)

Financial Management of Reparables

Typically, large complex organizations include many separate activities that provide goods and services to one another. Such organizations must develop methods to govern the relationships among these activities that promote the goals of the organization as a whole. The Air Force faces this problem in the same way as any other large organization.

In the late 1980s, the Department of Defense began an effort to change the way it managed the relationships among its constituent activities. As part of that effort, Defense Management Review Decision (DMRD) 904 mandated that the Air Force should apply stock funding to the management of depot-level reparable (DLRs). A stock fund is a revolving working capital fund that facilitates transactions between depots and their customers. To use such a fund, the Air force has established an extensive system of internal transfer prices for depot services (Camm and Shulman 1992:ix). In a RAND study of unanticipated affects of stock fund pricing of DLRs, Camm and Shulman offered the following observations concerning the Air Force's internal transfer pricing policies:

Internal transfer pricing is common in the private sector, where it is designed to raise the visibility of costs inside an organization and encourage decision makers to make sound decisions about their use of services provided inside the organization. One principle lesson of the quality movement sweeping through private manufacturing is that optimization relative to individual functions like transportation often reduces the performance of the system as a whole. Only through an integrated view of change can we seek to improve the Air Force as a whole.

At a lower, more operational level, stock funding can improve the performance of the Air Force as a system only if it generates information that supports a system-wide perspective. A local decision maker inside the Air Force must act on the bases of the information given to him. Normally, we can expect him to know more about his local situation than about activities elsewhere in the Air Force; the prices used in stock funding are meant to provide useful information about the rest of the system. If these prices do not provide accurate information or the information provided is not commensurate with a decision maker's information about his local situation, stock funding does not support a system-wide view.

(Camm and Shulman 1992:14)

In 1993 the Air Force Logistics Management Agency published a study on the potential impact that changing the point of sale for Air Force stock fund assets would have on base supply inventory levels. This study primarily focused on the Repairable Support Division (RSD) and System Support Division (SSD) stock funds. The RSD and SSD are both vertical stock funds, which means they own, manage, and control the stock inventories at both the wholesale and retail supply accounts. Stock fund managers use

these funds to procure both wholesale and retail inventory requirements and are responsible for providing financial/inventory management and distribution of these assets worldwide. The current point of sale for these stock funds is at the retail customer level. Assets are initially transferred from wholesale stock inventories at the Air Logistics Center depots to retail supply accounts at base level at no cost to the wing/base. These assets are then subsequently sold to retail customers who purchase them with operations and maintenance (O&M) funds which in-turn replenishes the revolving stock fund (RSD/SSD) at the wholesale level (Johnson and others 1993: 1) Three point of sale variations were evaluated in this study. Two of the variations included two points of sale, one between the wholesale supply system and the base supply organization, and the other between the base supply and the retail customer. The study found that these options offered the greatest potential for reducing inventories due to their focus on funding for base level inventories (Johnson and others 1993: 1).

Summary

This chapter provided background information needed to understand the many factors that impact this research. To begin, logistics was defined in both its business and military applications and then traditional logistics pipeline processes within the Air Force system were reviewed. Then Two-Level maintenance and Lean Logistics were introduced and reviewed along with their impacts on the logistics structure and operation. The concept of intermediate supply points was explored along with the concept of Quick Response Logistics, CLOUT and DRIVE. Finally, the effects of the Air Force logistics system supply performance measures and the financial management of reparable was introduced.

III. Methodology

Introduction

This chapter begins with a review of the focus of this research followed by the specific research questions to be answered. Then the proposed centralized inventory concept is defined followed by the research hypothesis and description of the database used for analysis of the concept. This is followed by an explanation of the spreadsheet analysis processes used to develop the information needed to answer the research questions.

Research Focus

The Air Force has implemented the Two-Level Maintenance concept and many Lean Logistics initiatives for many reparable in its efforts to significantly reduced the length of many logistics pipeline segments. The Door-to-Door Distribution and Repair and Return Packaging initiatives reduced the handling nodes that reparable must pass through between the flightline and the depot repair facility. Use of commercial premium express transportation has reduced the transit time for reparable from weeks, or even months, to hours. Streamlined depot repair process have reduced asset repair times from months to days (Morill 1995:16). Another Lean Logistics initiative, yet un-addressed, is the consolidation of reparable inventories.

The traditional retail (base) supply organization evolved to meet base level customer demand with an "on-site" inventory of materiel. It evolved in an era when transportation of materiel from remote or off-site locations was expensive, slow, and uncertain. These conditions resulted in the adoption of a "forward stockage" strategy (Krajewski and Ritzman, 1993:448). Base stock levels were developed to meet service level requirements based on the variability in demand and the length and variability in

stock replenishment time. Over time, given the Air Forces' fixation with internal (output) performance measures, base service level performance measures such as issue effectiveness and MICAP rates became the goal of the logistics system. Because of the focus on these internal performance goals, there is an implicit assumption that base supply is the consumption point of the materiel. Many logisticians have come to believe that if the pipeline was full and service level goals met, the mission was being supported (Kettner, 1992: 6).

The recent adoption of the aircraft availability goals, and a shift Air Force wide to outcome, rather than output, goals, has refocused of the goal logistics process on weapon system mission capability. This refocusing shifts the consumption point of the materiel back to the weapon system. With reparable assets repaired at depots and consumed at the weapon system, base supply, by default, becomes the final distribution node in the logistics pipeline rather than the consumption point. While these final distribution nodes must be close enough to the weapon system location to provide acceptable customer service, that distance is most appropriately measured in response time rather than geographic proximity. The ability of commercial express delivery services to deliver packages overnight brings the potential response time of an off-site final distribution node to within hours of the response time of the traditional, on-site, base supply. This responsive transportation makes a "rearward stockage" strategy a viable alternative to the current forward stockage strategy (Krajewski and Ritzman, 1993:448).

This research compares the potential results of shifting from the present forward stockage strategy to a rearward stockage strategy for Two-Level Maintenance reparable. To evaluate the rearward stockage strategy, an experimentally designed, centralized inventory concept is developed. The measures of interest are the difference in the number of components required for inventory between the forward and rearward stockage strategies, and the potential impact on availability of the supported weapon systems.

Centralized Inventory Concept

There are several options for centrally locating consolidated stocks of reparable. One option would place the stocks at the source of repair (depot of contractor facility). Existing facilities and information systems could be used to monitor levels. Another option is to centralize the stocks at a transportation hub where response times could be reduced, information systems simplified, and accountability improved. This option could be extended to contract the entire operation to a commercial entity for servicing, warehousing, controlling and distribution, with commercial tracking systems (HQ USAF/LGM-2 1995:44).

The alternative, experimentally designed, centralized reparable inventory for this study consists of a limited number of regional distribution centers in which all serviceable reparable assets would be warehoused until a base level demand was placed. Base level stockage under this design, would be reduced to zero. The regional distribution centers would be located at commercial express carriers' hubs to expedite delivery of reparables to the bases. Hub locations would allow parts ordered within hours of the outbound movement from the hub to be delivered. Potentially, some express carriers with the capability to provide complete third-party logistics services could be contracted manage the warehousing and delivery of the reparables. Overnight lateral transfer of reparables between the regional distribution centers, directed by item managers through redistribution orders, would be used to re-balance inventory following unanticipated demands. This overnight lateral transfers capability would create a "virtual" single inventory. Figure 3-1. graphically depict the flow of two-level reparables under the proposed Regional Distribution Center concept.

FLOW OF REPARABLE ASSETS UNDER A CENTRALIZED INVENTORY CONCEPT

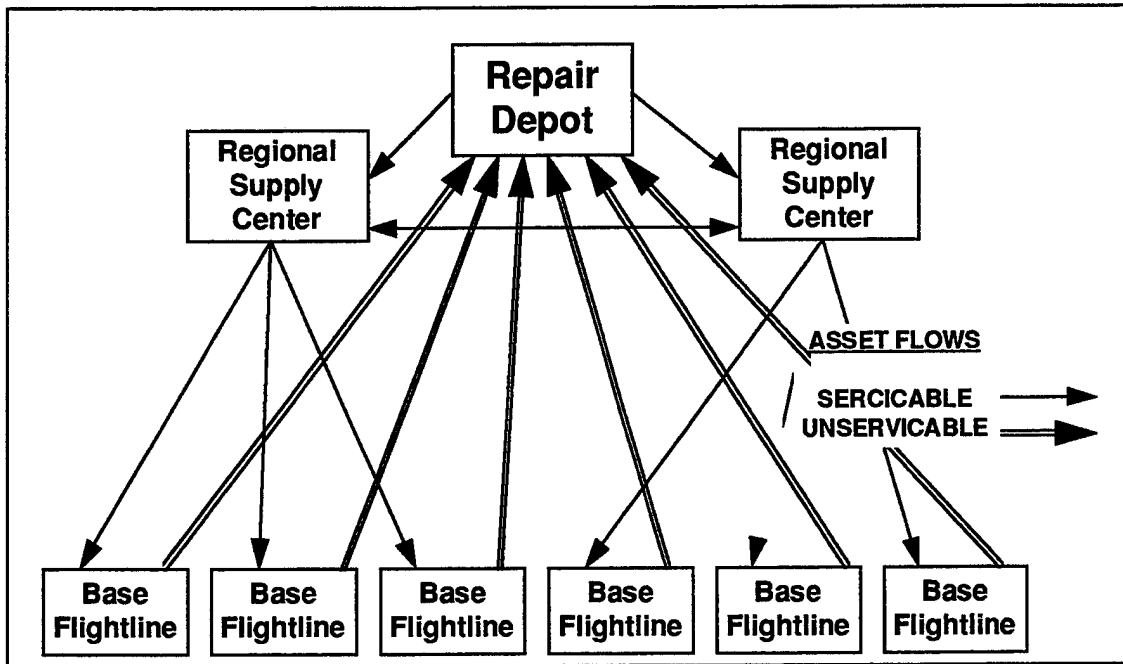


Figure 3-1. Reparable Asset Flow

Research Objective

The objective of this research is determine whether base level demand for reparable assets can be satisfied from several off-site Regional Distribution Centers, forming a "virtual" single inventory, with a lower aggregate inventory requirement than the currently used, on-site base supply aggregate inventory. The performance measures of interest are the number of components required in the aggregate inventory, and the impact on weapon system mission capability. The metric selected to measure the impact on mission capability is the Not Mission Capable/Supply (NMC/S) rate. Aircraft in NMC/S status are aircraft not mission capable due to the shortage of a part. The NMC/S rate is determined by dividing the total number of hours that aircraft are in NMC/S status by the potential

total number of aircraft availability hours, that is 24 hours, per day, per aircraft. Use of this metric isolates impact of supply support from other variables such as scheduled and unscheduled maintenance.

Data Base

The data base used in the analysis of the "virtual" single reparable inventory concept is secondary data provided by the HQ AFMC/LG-Lean Logistics office, Wright-Patterson AFB, OH. The data was originally collected to analyze the retrograde time for Two-Level Maintenance reparables. The data was provided in text file format on electronic media. The files were constructed by extracting data from the Air Force Logistics Information File (AFLIF). Data files for each months of January, February, and March, 1995 were consolidated and used for this study. This retrograde data was selected for use over maintenance action data, or supply demand data systems, because it provides data from world-wide activities consolidated into a single database. Additionally, each retrograde action creates an asset shortage or "hole" in a weapon system, or in the base supply stockage level, that subsequently must be filled through a demand action placed on the supply system. This provides a more accurate analysis of demand than maintenance data, where removal actions do not necessarily generate a requirement for a replacement component, or supply data where there may be multiple requisitions for a single shortage. In Table 3-2. provides a sample of the data elements resulting from a single retrograde action. Tables containing Stock Record Account Numbers (SRANs) and Routing Indicator Code (RICs) are located at Appendix A. The National Stock Number (NSN) identifies the reparable asset.

Table 3-2. Data Elements

Requisition No.	NSN	SRAN shipped from	RIC shipped to	Julian shipping date	Julian Receipt date	Transit Days
FB282350030041	1270010469884	2823	FLZ	003	4	1

Spreadsheet Analysis

Microsoft Excel 4.0 spreadsheet software was selected for this study due to its widespread availability as a standard software package within the Air Force and due to its data extracting and sorting capabilities.

The spreadsheet analysis of the database is broken into two segments corresponding to the two research questions. The first segment is designed to determine the difference between the aggregate requirement for reparable spares for base-level inventories and for the "virtual" single inventory concept. The second segment is designed to determine the impact of overnight delivery/issue of the reparable assets to the using organizations.

Aggregate Reparable Spares Requirement. This analysis is broken into two segments corresponding to the current forward stockage strategy and the proposed "virtual" single inventory rearward stockage strategy. To identify the aggregate inventory requirement for the forward stockage strategy, the data base was sorted to combine matching SRANs, then the total demand for each NSN under the SRAN for the evaluation period was summed and divided by 90, the number of days in the evaluation period, resulting in a Daily Demand Rate. The daily demand rate is then entered into the Repair Cycle Demand Level (RCDL) formula to compute a stockage level for one, two, and three standard deviation of safety level stock. The repair cycle time was set at ten days and a

three-to-one variance-to-mean ration was assumed. The resulting computed stock level for each NSN was then rounded up to the next integer, and the resulting totals for all SRANs is summed to determine the aggregate inventory requirement. The results of this data run are located at Appendix B.

The computation for the "virtual" single inventory, or rearward stockage strategy, was conducted similarly. The exception was that the demand data was not separated by SRAN prior to computing the DDR and stock level requirements. The results of this data run are located at Appendix C.

By comparing the results of these two data runs, the difference in the number of components required for inventory for the forward and rearward stockage strategies can be determined.

Impact of Overnight delivery on Mission Capability. The evaluation of a rearward stockage strategy requires that the impact of delivery time be quantified. For this study two assumption are made. The first is that each base will consolidate "holes" or missing components to the maximum extent possible through management actions. The second assumption is that the average delivery time will span from the middle of the flying/maintenance duty day to 0800 the following morning, or approximately 16 hours. To compute the total additional NMC/S time resulting from the 16 hour delivery delay, the data base was again sorted to separate demands by SRAN. Then, for each SRAN the data was sorted to identify matching NSN and demand date combinations. For each SRAN, on each date, the NSN with the greatest number of demands was recorded along with the number of demands. This number of demands determined the number of NMC/S aircraft, at each base, on each day of the study. The number of NMC/S aircraft for each SRAN on each day of the study is then totaled for all and multiplied by 16 hours to determine the total additional hours of NMC/S time resulting from the overnight delivery of the assets. Dividing this total by the total of aircraft hours available during the test

period provides the resulting change in the NMC/S rate. The results of this data run are located at Appendix D.

The total hours of aircraft availability is computed as 24 hours multiplied by 90 days, multiplied by the total estimated number of aircraft supported by Two-Level Maintenance reparables. The number of aircraft supported is estimated based on information contained in the 1995 USAF Almanac published by the Air Force Association (Mehuron 1995:35). For this estimate, the total active duty, Reserve, and Air National Guard inventory of each aircraft type based at bases with Two-Level reparable demands was used. A table including base name, SRAN, type aircraft assigned and number of aircraft in fleet is located at Appendix E.

Summary

This chapter opened by refocusing on the research objective. Following this was an explanation of the rearward inventory strategy that the "virtual single inventory concept is based on. The specifics of the alternative, experimentally designed, virtual single reparable inventory for this research was defined as was the source of the Two-Level reparable demand data used to evaluate the concept. Finally the process used to sort the data resulting in the desired information was described in detail.

IV. Results and Analysis

Introduction

This chapter presents the results of the data analysis conducted using the methodology described in Chapter Three. Each of the research questions is presented followed by results of the data analysis and a discussion of the significance of the results.

Aggregate Inventory Requirement

Research Question 1. What effect would consolidation of Two-Level reparableables to a central inventory and eliminating base-level inventories have on the aggregate number of inventory items? The methodology in Chapter Three was designed to determine the change in aggregate inventory size resulting from a change from base level stockage of the inventories to a centralized stockage system. Answering this research question required two analyses of the demand data, one representing the current base level stockage of the inventories and the second representing the result of centralizing the inventories and the demand. The results are presented in table format in Table 4-1.

Table 4-1. Inventory Requirements

INVENTORY REQUIREMENTS	S + 1 St. Dev.	S + 2 St. Dev.	S + 3 St. Dev.
	84% Serv Lvl	97% Serv Lvl	99% Serv Lvl
Aggregate Base Level Inventories	7837	9878	14434
"Virtual" Single Inventory	3252	5717	7388

Centralizing the Two-Level reparable inventories and eliminating base-level inventories resulted in a significant savings in aggregate inventory requirement at each service level

represented. The percentage of savings in inventory requirement was greatest at the 84 percent service level, or $s + 1$ standard deviation, the service level most commonly used for inventory management. At this service level, centralizing the inventories resulted in a 59.5 percent savings in the computed stock level requirement. Comparing results across service levels is also of interest. For example, a "virtual" single inventory level computed at the $s + 2$ standard deviations, providing a 97 percent service level, can be compared to the aggregate base level inventories computed at the $s + 1$ standard deviation or 84 percent service level. In this example comparison, an increased service level, from 84 percent to 97 percent can be achieved with 27 percent savings in inventory requirement from the aggregate base level inventories required to achieve an $s + 1$ standard deviation, or 84 percent service level.

Mission Capability

Research Question 2. What effect would overnight issue from a consolidated Two-Level reparable inventory have on mission capability. This question is designed to determine the impact of the delayed issue of assets. Two assumptions are made. The first is that each base will consolidate "holes" or missing components to the maximum extent possible through management actions. The second is that the average delivery time will span from the middle of the flying/maintenance duty day to 0800 the following morning, or approximately 16 hours. The results of the database analysis is presented in Table 4-2.

Table 4-2. Mission Capability

Additional NMC/S hours resulting from overnight issue from centralized inventory	120,320
Total aircraft hours available	10,612,080
NMC/S rate increase resulting from overnight issue	1.13%

The calculated NMC/S rate increase represents an aggregate percentage of all types of aircraft supported with Two-Level reparable. Results of individual aircraft types and/or individual units may vary significantly due to the numbers of aircraft assigned. Regardless, these results indicate that the NMC/S rate increase, and the resulting decrease in mission capability, resulting from the overnight delivery of the reparable assets from the centralized inventory could be expected to be marginal. From another perspective, it could be argued that the 59.5 percent increase in reparable inventory required to support a forward stockage strategy at the 84 percent service level, returns an increase of only 1.13 percent in mission capability.

Again, as with the inventory requirement results, interesting comparisons can be made between service levels with mission capability as well. There may be an opportunity to both save inventory requirement and increase mission capability. This could be achieved if the increased mission capability resulting from increasing the inventory service level more than off-set the penalty incurred through overnight delivery of the assets. Consider the following example. Stocking the central inventory to the $s + 2$ standard deviations, or 97 percent service level may result in an improvement in mission capability of more than the 1.13 percent reduction incurred through overnight delivery. If so, an increased mission capability and a 27 percent savings in inventory requirement would both be achieved.

Summary

This chapter presented the results of the data analysis based on the methodology presented in Chapter Three. Each of the research questions was addressed independently, and the results of the analysis were presented. Following this was a brief discussion of the results, their implications, and their relationship to each other.

V. Conclusions and Recommendations

Introduction

This chapter discusses the conclusions drawn from the research. First the findings are summarized and then conclusions are presented based on those findings. Following this is a discussion of institutional factors identified during the course of this research that also warrant further study. Finally, recommendations for future research are made.

Summary of Findings

This section presents a summary of the results of the data analysis produced for each of the research questions.

Aggregate Inventory Requirement. The first research question was designed to determine the change in aggregate inventory size resulting from a change from base level stockage of the inventories to a centralized stockage system. Two analyses of the demand data were conducted, one representing the current base level stockage of the inventories and the second representing the result of centralizing the inventories and the demand. Centralizing the Two-Level reparable inventories resulted in a significant savings in aggregate inventory requirement at each service level represented. The inventory savings was greatest at the 84 percent, or $s + 1$ standard deviation, the service level most commonly used for inventory management. At this service level, centralizing the inventories resulted in a 59.5 percent savings in the computed stock level requirement.

Mission Capability. The second research question was designed to determine the impact of the delayed issue of assets, resulting from overnight delivery, on mission capability. The metric selected to measure the impact on mission capability was the Not Mission Capable/Supply (NMC/S) rate. The results indicated that the reduction in mission

capability resulting from the overnight delivery of the reparable assets from the centralized inventory could be expected to be marginal.

Managerial Implications

The demands placed on the Air Force logistics system, and the environment that the system functions in have both seen dramatic changes over the past decade. Key elements among these changes are the collapse of the Soviet Union, the revolution in transportation service following that industry's deregulation, and the declining defense budgets of recent years. The collapse of the Soviet Union eliminated the single major threat that defined both operations and logistics planning throughout the cold war period. During this period, the logistics system, following a forward stockage strategy, equipped units to fight the first thirty days of the U.S. / Soviet conflict, in place, without resupply (Cohen and others 1991:11). Part of the rationale for this strategy is that throughout much of the cold war period, transportation was a slow and unreliable process, even without hostilities. At the outbreak of hostilities, with additional demands of mobilization placed on the transportation system, performance was expected to decline even further. This forward stockage strategy required the large inventories of aircraft spares, including reparable, stocked at each operating location. In the early cold war period inventories of aircraft spares were relatively inexpensive, but the development of newer technologies rapidly escalated these costs. However, funds were continually made available to continue the forward stockage strategy due to the Soviet threat. Today, with the Soviet threat removed, fast reliable commercial transportation available, and defense funds constrained, it may be time to re-examine the forward stockage strategy.

This research demonstrates that a rearward stockage strategy for aircraft reparable spares offers a viable alternative to the current forward stockage strategy. Rearward stockage takes full advantage of today's commercially available, high performance

transportation services for delivery of assets from regional supply centers. The pooling, or consolidation, of assets at Regional Supply Centers offers significant savings in the required stockage levels, on the order of 50 and 60 percent. The impact of the overnight delay in delivery of the assets was shown to be relatively small, on the order of a one to two percent increase in the NMC/S rate.

Although the impact in mission capability may be small, there are two other concerns with the adoption of rearward stockage. First is the loss of base level self-sufficiency, and the second is reliance on commercial transportation during hostilities. Base level self-sufficiency, the ability to operate without resupply, has already been severely eroded with the implementation of Two-Level maintenance, a change driven by today's fiscal realities. Reliance on commercial transportation during hostilities may, however, prove to be an advantage rather than a liability. With the collapse of the Soviet Union, the threat of a third world war has been replaced with regional conflicts. Two of the "Principles of War" listed on the first page of Air Force Manual 1-1, Volume 1, Basic Aerospace Doctrine of the USAF, are Mass and Economy of Force. Mass is the ability to concentrate combat power at the decisive time and place. Economy of Force is the means to create usable Mass by using minimum combat power for secondary objectives (AFM 1-1: 1). If the matter under consideration, transportation resources, is substituted for the term "combat" in the definitions of Mass and Economy of Scale, the definitions become applicable to the question of using commercial transportation resources. Through the use of these commercial transportation resources in regions where hostilities do not exist, Economy of Force would be achieved. Air Force Transport aircraft are not required for transportation of materiel in regions where hostilities do not exist. Achieving Economy of Force through the use of commercial transportation would result in the ability to concentrate, or mass, Air Force transport aircraft for resupply in hostile regions, when hostilities exist, without disrupting a world wide transportation system.

Institutional Factors

During the course of this research, two significant factors were identified that serve to perpetuate the forward stockage strategy developed during the cold war years. These factors are the focus on internal performance metrics of the retail supply function and the current financial management of reparable assets in the logistics pipeline.

The focus on internal performance criteria by various functions within a logistics system has long been recognized as a factor in suboptimized logistics system performance. The focus in internal performance measures such as Issue Effectiveness and MICAP rates in the retail supply organizations as an end unto themselves rather than tool to measure and optimize the logistics process has fostered the continued reliance on a richness of assets to meet mission requirements, rather than responsive transportation. As such, these internal performance measures encourage forward stockage even when rearward stockage may provide a more economical, and practical, and cost effective, solution.

All large organizations that manage assets must develop a transfer pricing system for those assets. These systems are most beneficial when they provide managers and decision makers at all levels with the cost information necessary to make rational decisions. The Air Force faces the same concerns in the management of reparable assets in the logistics pipeline. Currently, only one point of sale for reparable assets is maintained, and that is when the reparable asset is issued from the retail supply organization to the using organization. Prior to issue, the inventory holding cost of the asset is born by the repairing Depot as part of an Air Force Stock Fund. As a result, the inventory holding cost of the retail level inventories is shielded, masked from the retail supply decision makers. This results in local inventory decision makers making inventory stocking decisions without consideration of inventory holding costs.

Limitations of the study

The demand data base used for this study included the demand for Two-Level reparable from January 1 through March 31, 1995, a single quarter. This single quarter demand is insufficient to establish long term demand levels, therefore the results cannot be generalized to other demand periods.

Another limitation was the availability of data to determine which aircraft, at which bases, are supported with Two-Level reparable. For this reason, the total aircraft fleet size used to determine the effect on NMC/S rates for research question two is, by necessity, an estimate. However, artificially manipulating the supported aircraft number in the NMC/S formula results in relatively little change in the resulting NMC/S rate.

The assumptions listed in Chapter One are intended to isolate the effects of inventory location for analysis. In practice these factors are not isolated and repair cycle time, transportation time and inventory location interact and all must be considered in developing a support strategy. Inventory location was isolated in this study to evaluate the potential and viability of the rearward stockage strategy, not to determine a specific savings level that could be achieved.

Suggestions for Further Research

In this research, the RCDL model was used to compute inventory levels for both the base level and centralized inventories. The Aircraft Availability Model, developed by the Logistics Management Institute, evaluates the combination of stock numbers on aircraft availability. Future research should be conducted to determine centralized reparable inventory levels using the Aircraft Availability Model.

Additionally, rearward stockage strategies may also be applicable to consumable inventories. Although these inventories represent less cost than reparable, they are

stocked significantly larger numbers. The Square Root of "n" Rule, applicable to consumable inventories that are stocked on an economic-order-quantity basis, suggests that reductions of a large magnitude are possible through consolidation. If consumable inventories could be reduced on the same scale as reparable inventories through adoption of a rearward stockage strategy, the savings in the cost of managing these inventories could be significant.

The combination of internal metrics that foster the holding of large inventories at the retail level, and a transfer pricing system that shields retail level supply decision makers from the cost of maintaining large inventories will continue to perpetuate the forward stockage strategy. Both of these factors, internal metrics and transfer pricing, require further research.

Chapter Summary

This chapter discussed the conclusions drawn from the research. First the findings were summarized. Next, they were interpreted from a management perspective. Then, institutional factors, identified in Chapter Two, received comment. Finally, some recommendations for future research were presented.

Thesis Summary

The key elements that shaped the development of the Air Force logistics structure during the cold war era mandated a forward stockage strategy for most materiel, including aircraft reparable. Today the key elements; the Soviet threat; slow, expensive, and unreliable transportation; and readily available funding; have changed. These changes result in a new operating environment for which new operating strategies must be developed.

This research demonstrates that a rearward stockage strategy for aircraft reparable spares offers a viable alternative to the current forward stockage strategy. The rearward

stockage strategy takes advantage of improved transportation and the reduced threat in the post cold war environment. A rearward stockage strategy offers a potential to maintain combat capability with a significant savings in inventory requirements of reparable assets and therefore warrants further research and concept development.

Appendix A: SRAN Listing

BASE	SRAN	BASE	SRAN	ALC	RIC
Hill	2027	Langley	4800	Ogden	FGx
Tinker	2037	Shaw	4803	Tinker	FHx
McClellan	2047	Howard	4810	Sacramento	FFx
Kelly	2053	Tyndall	4819	San Antoino	Fpx
Robins	2067	Moody	4830	Warner Robbins	Flx
Wright Patterson	2300	Nellis	4852		
Peterson	2500	Cannon	4855		
Patrick	2520	Davis-Monthan	4877		
Edwards	2805	Luke	4887		
Duke Field	2823	Mt Home	4897		
Keesler	3010	Elmendorf	5000		
Sheppard	3020	Eielson	5004		
Maxwell	3300	Misawa	5205		
Hurlbert	4417	Yokota	5209		
Charleston	4418	Kadena	5270		
Altus	4419	Kunsan	5284		
Travis	4427	Osan	5294		
Little Rock	4460	Mildenhall	5518		
Kirtland	4469	Ramstein	5612		
McChord	4479	Spangdahlem	5621		
McGuire	4484	Aviono	5682		
Pope	4488	Pease	6291		
Dover	4497	Portland	6371		
K.I.Sawyer	4515	Andrews	6511		
Minot	4528	Mitchell	6605		
Offutt	4600	Westover	6606		
Barksdale	4608	O'Hare	6618		
Griffiss	4616	Minn-St.Paul	6633		
Fairchild	4620	Willow Grove	6637		
McConnell	4621	Homestead	6648		
Whiteman	4625	Youngstown	6656		
Malmstrom	4626	Niagara	6670		
Grissom	4654	Carswell	6675		
Grand Forks	4659	Dobbins	6703		
Dyess	4661	Pittsburgh	6712		
March	4664	NAS New Orleans	6716		
Castle	4672				
Beale	4686				
Ellsworth	4690				

Appendix B: Aggregate Base-Level Inventory Requirement

NSN	SRAN	DEMAND	DDR	S+1SD	Qty Req	S+2SD	Qty Req	S+3SD	Qty Req
1260012511150	2027	6	0.066667	2.0809	3	2.97607	3	4.909307	5
1270012319800	2027	2	0.022222	1.0387	2	1.55556	2	2.671712	3
1270012330011	2027	19	0.211111	4.6277	5	6.22072	7	9.660946	10
1270012352370	2027	3	0.033333	1.3333	2	1.96633	2	3.333333	4
1270012383662	2027	12	0.133333	3.3333	4	4.59932	5	7.333333	8
1270012566538	2027	9	0.1	2.7321	3	3.82843	4	6.196152	7
1270013093077	2027	2	0.022222	1.0387	2	1.55556	2	2.671712	3
1270013333608	2027	4	0.044444	1.5991	2	2.33006	3	3.908546	4
1270992512706	2027	1	0.011111	0.6885	1	1.05392	2	1.843162	2
1270997468162	2027	1	0.011111	0.6885	1	1.05392	2	1.843162	2
1270997714187	2027	2	0.022222	1.0387	2	1.55556	2	2.671712	3
1290011091499	2027	6	0.066667	2.0809	3	2.97607	3	4.909307	5
1290012978068	2027	1	0.011111	0.6885	1	1.05392	2	1.843162	2
1290013223711	2027	3	0.033333	1.3333	2	1.96633	2	3.333333	4
1680011390166	2027	1	0.011111	0.6885	1	1.05392	2	1.843162	2
5810004490154	2027	1	0.011111	0.6885	1	1.05392	2	1.843162	2
5821010621019	2027	4	0.044444	1.5991	2	2.33006	3	3.908546	4
5821011038155	2027	2	0.022222	1.0387	2	1.55556	2	2.671712	3
5826010121938	2027	2	0.022222	1.0387	2	1.55556	2	2.671712	3
5826010409798	2027	3	0.033333	1.3333	2	1.96633	2	3.333333	4
5831000611577	2027	1	0.011111	0.6885	1	1.05392	2	1.843162	2
5836010512886	2027	2	0.022222	1.0387	2	1.55556	2	2.671712	3
5841012827090	2027	1	0.011111	0.6885	1	1.05392	2	1.843162	2
5841012827093	2027	1	0.011111	0.6885	1	1.05392	2	1.843162	2
5865010805675	2027	6	0.066667	2.0809	3	2.97607	3	4.909307	5
5865011106043	2027	2	0.022222	1.0387	2	1.55556	2	2.671712	3
5865013249103	2027	4	0.044444	1.5991	2	2.33006	3	3.908546	4
5895000894522	2027	1	0.011111	0.6885	1	1.05392	2	1.843162	2
5895011074586	2027	2	0.022222	1.0387	2	1.55556	2	2.671712	3
5895011126380	2027	14	0.155556	3.7158	4	5.08322	6	8.036296	9
5895011420803	2027	3	0.033333	1.3333	2	1.96633	2	3.333333	4
5895011435443	2027	1	0.011111	0.6885	1	1.05392	2	1.843162	2
5895011549125	2027	2	0.022222	1.0387	2	1.55556	2	2.671712	3
5895012301075	2027	1	0.011111	0.6885	1	1.05392	2	1.843162	2
5895012422033	2027	5	0.055556	1.8466	2	2.66374	3	4.428539	5
5895012489012	2027	1	0.011111	0.6885	1	1.05392	2	1.843162	2
5895013102157	2027	8	0.088889	2.5219	3	3.55556	4	5.787868	6
5930010920386	2027	2	0.022222	1.0387	2	1.55556	2	2.671712	3
5945011709363	2027	6	0.066667	2.0809	3	2.97607	3	4.909307	5
5985012122950	2027	1	0.011111	0.6885	1	1.05392	2	1.843162	2
5985012575597	2027	2	0.022222	1.0387	2	1.55556	2	2.671712	3
5998011896233	2027	21	0.233333	4.9791	5	6.65383	7	10.27059	11
5998013227746	2027	1	0.011111	0.6885	1	1.05392	2	1.843162	2
5998013309073	2027	2	0.022222	1.0387	2	1.55556	2	2.671712	3
5999010803978	2027	2	0.022222	1.0387	2	1.55556	2	2.671712	3
6340010557374	2027	2	0.022222	1.0387	2	1.55556	2	2.671712	3
6605001491134	2027	2	0.022222	1.0387	2	1.55556	2	2.671712	3
6605010424831	2027	4	0.044444	1.5991	2	2.33006	3	3.908546	4

Appendix B: Aggregate Base-Level Inventory Requirement

6605012562380	2027	1	0.011111	0.6885	1	1.05392	2	1.843162	2
6610001600905	2027	2	0.022222	1.0387	2	1.55556	2	2.671712	3
6610003142480	2027	1	0.011111	0.6885	1	1.05392	2	1.843162	2
6610003616686	2027	2	0.022222	1.0387	2	1.55556	2	2.671712	3
6610008724303	2027	2	0.022222	1.0387	2	1.55556	2	2.671712	3
6610010397817	2027	2	0.022222	1.0387	2	1.55556	2	2.671712	3
6615010427834	2027	2	0.022222	1.0387	2	1.55556	2	2.671712	3
6615011273160	2027	3	0.033333	1.3333	2	1.96633	2	3.333333	4
6615013517337	2027	1	0.011111	0.6885	1	1.05392	2	1.843162	2
6615013619746	2027	13	0.144444	3.5261	4	4.84379	5	7.689442	8
6625011938861	2027	7	0.077778	2.3053	3	3.27222	4	5.360353	6
6645000763050	2027	3	0.033333	1.3333	2	1.96633	2	3.333333	4
7025011963702	2027	3	0.033333	1.3333	2	1.96633	2	3.333333	4
5810004490154	2037	2	0.022222	1.0387	2	1.55556	2	2.671712	3
5810010269624	2037	2	0.022222	1.0387	2	1.55556	2	2.671712	3
5810010508115	2037	6	0.066667	2.0809	3	2.97607	3	4.909307	5
5810012737820	2037	4	0.044444	1.5991	2	2.33006	3	3.908546	4
5821010621019	2037	2	0.022222	1.0387	2	1.55556	2	2.671712	3
5821011038155	2037	2	0.022222	1.0387	2	1.55556	2	2.671712	3
5821012287058	2037	5	0.055556	1.8466	2	2.66374	3	4.428539	5
5821012866543	2037	4	0.044444	1.5991	2	2.33006	3	3.908546	4
5826001345971	2037	2	0.022222	1.0387	2	1.55556	2	2.671712	3
5826009178679	2037	4	0.044444	1.5991	2	2.33006	3	3.908546	4
5826010121938	2037	8	0.088889	2.5219	3	3.55556	4	5.787868	6
5826010124864	2037	2	0.022222	1.0387	2	1.55556	2	2.671712	3
5826010412044	2037	2	0.022222	1.0387	2	1.55556	2	2.671712	3
5831005195883	2037	10	0.111111	2.9369	3	4.09254	5	6.588337	7
5831009993916	2037	4	0.044444	1.5991	2	2.33006	3	3.908546	4
5841010568647	2037	2	0.022222	1.0387	2	1.55556	2	2.671712	3
5841010891064	2037	4	0.044444	1.5991	2	2.33006	3	3.908546	4
5841010918929	2037	10	0.111111	2.9369	3	4.09254	5	6.588337	7
5841012827090	2037	4	0.044444	1.5991	2	2.33006	3	3.908546	4
5841012827091	2037	7	0.077778	2.3053	3	3.27222	4	5.360353	6
5841012827093	2037	18	0.2	4.4495	5	6	6	9.348469	10
5841012830065	2037	15	0.166667	3.9027	4	5.31815	6	8.374871	9
5895000894522	2037	6	0.066667	2.0809	3	2.97607	3	4.909307	5
5895010537839	2037	2	0.022222	1.0387	2	1.55556	2	2.671712	3
5895011126380	2037	5	0.055556	1.8466	2	2.66374	3	4.428539	5
5985010890737	2037	4	0.044444	1.5991	2	2.33006	3	3.908546	4
5985011041424	2037	1	0.011111	0.6885	1	1.05392	2	1.843162	2
5985012827891	2037	6	0.066667	2.0809	3	2.97607	3	4.909307	5
5985012827892	2037	2	0.022222	1.0387	2	1.55556	2	2.671712	3
6130010568665	2037	2	0.022222	1.0387	2	1.55556	2	2.671712	3
6605005569318	2037	2	0.022222	1.0387	2	1.55556	2	2.671712	3
6615009732218	2037	2	0.022222	1.0387	2	1.55556	2	2.671712	3
6615012258139	2037	2	0.022222	1.0387	2	1.55556	2	2.671712	3
6615012258241	2037	1	0.011111	0.6885	1	1.05392	2	1.843162	2
6620005154541	2037	2	0.022222	1.0387	2	1.55556	2	2.671712	3
6645001506526	2037	2	0.022222	1.0387	2	1.55556	2	2.671712	3

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6645009508599	2037	2	0.022222	1.0387	2	1.55556	2	2.671712	3
5826001345972	2047	1	0.011111	0.6885	1	1.05392	2	1.843162	2
5826001345977	2047	3	0.033333	1.3333	2	1.96633	2	3.333333	4
5826002755781	2047	1	0.011111	0.6885	1	1.05392	2	1.843162	2
5826008974122	2047	1	0.011111	0.6885	1	1.05392	2	1.843162	2
5826009178679	2047	2	0.022222	1.0387	2	1.55556	2	2.671712	3
5841010693756	2047	2	0.022222	1.0387	2	1.55556	2	2.671712	3
5841012827093	2047	2	0.022222	1.0387	2	1.55556	2	2.671712	3
5895000894522	2047	4	0.044444	1.5991	2	2.33006	3	3.908546	4
5985012827891	2047	1	0.011111	0.6885	1	1.05392	2	1.843162	2
5990007178111	2047	2	0.022222	1.0387	2	1.55556	2	2.671712	3
6130010568665	2047	1	0.011111	0.6885	1	1.05392	2	1.843162	2
6605005012379	2047	4	0.044444	1.5991	2	2.33006	3	3.908546	4
6605005569318	2047	2	0.022222	1.0387	2	1.55556	2	2.671712	3
6615009732218	2047	3	0.033333	1.3333	2	1.96633	2	3.333333	4
6615012253744	2047	2	0.022222	1.0387	2	1.55556	2	2.671712	3
6615012253745	2047	2	0.022222	1.0387	2	1.55556	2	2.671712	3
1630011897830	2053	2	0.022222	1.0387	2	1.55556	2	2.671712	3
2840002336043	2053	3	0.033333	1.3333	2	1.96633	2	3.333333	4
2840011584264	2053	1	0.011111	0.6885	1	1.05392	2	1.843162	2
4920001344902	2053	4	0.044444	1.5991	2	2.33006	3	3.908546	4
4920001344903	2053	1	0.011111	0.6885	1	1.05392	2	1.843162	2
4920002399000	2053	1	0.011111	0.6885	1	1.05392	2	1.843162	2
4920002467225	2053	2	0.022222	1.0387	2	1.55556	2	2.671712	3
4920002497147	2053	1	0.011111	0.6885	1	1.05392	2	1.843162	2
4920002497148	2053	1	0.011111	0.6885	1	1.05392	2	1.843162	2
4920002497149	2053	3	0.033333	1.3333	2	1.96633	2	3.333333	4
4920002497153	2053	3	0.033333	1.3333	2	1.96633	2	3.333333	4
4920002497154	2053	1	0.011111	0.6885	1	1.05392	2	1.843162	2
4920004206295	2053	1	0.011111	0.6885	1	1.05392	2	1.843162	2
4920004265486	2053	1	0.011111	0.6885	1	1.05392	2	1.843162	2
4920004868836	2053	3	0.033333	1.3333	2	1.96633	2	3.333333	4
4920005639126	2053	1	0.011111	0.6885	1	1.05392	2	1.843162	2
4920010347681	2053	3	0.033333	1.3333	2	1.96633	2	3.333333	4
4920011850756	2053	1	0.011111	0.6885	1	1.05392	2	1.843162	2
4920012098963	2053	2	0.022222	1.0387	2	1.55556	2	2.671712	3
4920012098968	2053	2	0.022222	1.0387	2	1.55556	2	2.671712	3
4920012100966	2053	1	0.011111	0.6885	1	1.05392	2	1.843162	2
4920012917299	2053	1	0.011111	0.6885	1	1.05392	2	1.843162	2
4920013126007	2053	1	0.011111	0.6885	1	1.05392	2	1.843162	2
5821010621019	2053	2	0.022222	1.0387	2	1.55556	2	2.671712	3
5821012587579	2053	1	0.011111	0.6885	1	1.05392	2	1.843162	2
5826000606055	2053	2	0.022222	1.0387	2	1.55556	2	2.671712	3
5841010891064	2053	1	0.011111	0.6885	1	1.05392	2	1.843162	2
5841010918929	2053	1	0.011111	0.6885	1	1.05392	2	1.843162	2
5841012918393	2053	2	0.022222	1.0387	2	1.55556	2	2.671712	3
5985012058599	2053	2	0.022222	1.0387	2	1.55556	2	2.671712	3
6130012562076	2053	2	0.022222	1.0387	2	1.55556	2	2.671712	3

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6610000180682	2053	13	0.144444	3.5261	4	4.84379	5	7.689442	8
6610001691601	2053	1	0.011111	0.6885	1	1.05392	2	1.843162	2
6610005061745	2053	2	0.022222	1.0387	2	1.55556	2	2.671712	3
6610011326661	2053	6	0.066667	2.0809	3	2.97607	3	4.909307	5
6610012262152	2053	2	0.022222	1.0387	2	1.55556	2	2.671712	3
6615001633181	2053	2	0.022222	1.0387	2	1.55556	2	2.671712	3
6615004117976	2053	6	0.066667	2.0809	3	2.97607	3	4.909307	5
6615005370580	2053	2	0.022222	1.0387	2	1.55556	2	2.671712	3
6615010453887	2053	2	0.022222	1.0387	2	1.55556	2	2.671712	3
6615010453888	2053	3	0.033333	1.3333	2	1.96633	2	3.333333	4
6615010453889	2053	2	0.022222	1.0387	2	1.55556	2	2.671712	3
6615010453890	2053	2	0.022222	1.0387	2	1.55556	2	2.671712	3
6615010471190	2053	4	0.044444	1.5991	2	2.33006	3	3.908546	4
6620013055344	2053	2	0.022222	1.0387	2	1.55556	2	2.671712	3
5810000613386	2067	6	0.066667	2.0809	3	2.97607	3	4.909307	5
5810004490154	2067	5	0.055556	1.8466	2	2.66374	3	4.428539	5
5810010269624	2067	2	0.022222	1.0387	2	1.55556	2	2.671712	3
5810010508115	2067	6	0.066667	2.0809	3	2.97607	3	4.909307	5
5810010508116	2067	3	0.033333	1.3333	2	1.96633	2	3.333333	4
5810011734045	2067	2	0.022222	1.0387	2	1.55556	2	2.671712	3
5821010621019	2067	4	0.044444	1.5991	2	2.33006	3	3.908546	4
5821010676728	2067	2	0.022222	1.0387	2	1.55556	2	2.671712	3
5821010979133	2067	1	0.011111	0.6885	1	1.05392	2	1.843162	2
5821011038155	2067	2	0.022222	1.0387	2	1.55556	2	2.671712	3
5821012133980	2067	3	0.033333	1.3333	2	1.96633	2	3.333333	4
5821012287058	2067	1	0.011111	0.6885	1	1.05392	2	1.843162	2
5821012587580	2067	1	0.011111	0.6885	1	1.05392	2	1.843162	2
5821012866543	2067	1	0.011111	0.6885	1	1.05392	2	1.843162	2
5826001345966	2067	1	0.011111	0.6885	1	1.05392	2	1.843162	2
5826001345971	2067	1	0.011111	0.6885	1	1.05392	2	1.843162	2
5826001345977	2067	2	0.022222	1.0387	2	1.55556	2	2.671712	3
5826001345978	2067	1	0.011111	0.6885	1	1.05392	2	1.843162	2
5826001345982	2067	1	0.011111	0.6885	1	1.05392	2	1.843162	2
5826002755781	2067	1	0.011111	0.6885	1	1.05392	2	1.843162	2
5826003191378	2067	2	0.022222	1.0387	2	1.55556	2	2.671712	3
5826004445276	2067	1	0.011111	0.6885	1	1.05392	2	1.843162	2
5826010121919	2067	10	0.111111	2.9369	3	4.09254	5	6.588337	7
5826010121938	2067	2	0.022222	1.0387	2	1.55556	2	2.671712	3
5826010124864	2067	1	0.011111	0.6885	1	1.05392	2	1.843162	2
5831000611577	2067	3	0.033333	1.3333	2	1.96633	2	3.333333	4
5831005195883	2067	4	0.044444	1.5991	2	2.33006	3	3.908546	4
5831005235328	2067	1	0.011111	0.6885	1	1.05392	2	1.843162	2
5841001345975	2067	1	0.011111	0.6885	1	1.05392	2	1.843162	2
5841008047159	2067	5	0.055556	1.8466	2	2.66374	3	4.428539	5
5841010537872	2067	3	0.033333	1.3333	2	1.96633	2	3.333333	4
5841010537874	2067	2	0.022222	1.0387	2	1.55556	2	2.671712	3
5841012827090	2067	2	0.022222	1.0387	2	1.55556	2	2.671712	3
5841012827091	2067	4	0.044444	1.5991	2	2.33006	3	3.908546	4
5841012827093	2067	8	0.088889	2.5219	3	3.55556	4	5.787868	6

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5895000894522	2067	6	0.066667	2.0809	3	2.97607	3	4.909307	5
5895010537839	2067	1	0.011111	0.6885	1	1.05392	2	1.843162	2
5985010537676	2067	1	0.011111	0.6885	1	1.05392	2	1.843162	2
5985011041424	2067	2	0.022222	1.0387	2	1.55556	2	2.671712	3
5985012827891	2067	6	0.066667	2.0809	3	2.97607	3	4.909307	5
6130010568665	2067	7	0.077778	2.3053	3	3.27222	4	5.360353	6
6605005569318	2067	3	0.033333	1.3333	2	1.96633	2	3.333333	4
6605006202801	2067	3	0.033333	1.3333	2	1.96633	2	3.333333	4
6605006208635	2067	1	0.011111	0.6885	1	1.05392	2	1.843162	2
6615009732218	2067	3	0.033333	1.3333	2	1.96633	2	3.333333	4
6615011382369	2067	2	0.022222	1.0387	2	1.55556	2	2.671712	3
6615012253744	2067	2	0.022222	1.0387	2	1.55556	2	2.671712	3
6615012253745	2067	4	0.044444	1.5991	2	2.33006	3	3.908546	4
6615012258241	2067	2	0.022222	1.0387	2	1.55556	2	2.671712	3
6645001506526	2067	9	0.1	2.7321	3	3.82843	4	6.196152	7
6645009508599	2067	1	0.011111	0.6885	1	1.05392	2	1.843162	2
1270012733859	2300	1	0.011111	0.6885	1	1.05392	2	1.843162	2
1270013225249	2300	2	0.022222	1.0387	2	1.55556	2	2.671712	3
1280012804855	2300	1	0.011111	0.6885	1	1.05392	2	1.843162	2
5821012587579	2300	2	0.022222	1.0387	2	1.55556	2	2.671712	3
5821013115105	2300	2	0.022222	1.0387	2	1.55556	2	2.671712	3
5826009731916	2300	3	0.033333	1.3333	2	1.96633	2	3.333333	4
5826012371912	2300	1	0.011111	0.6885	1	1.05392	2	1.843162	2
5831000611577	2300	1	0.011111	0.6885	1	1.05392	2	1.843162	2
5831005195883	2300	3	0.033333	1.3333	2	1.96633	2	3.333333	4
5831005235328	2300	3	0.033333	1.3333	2	1.96633	2	3.333333	4
5831009523454	2300	3	0.033333	1.3333	2	1.96633	2	3.333333	4
5841010781344	2300	2	0.022222	1.0387	2	1.55556	2	2.671712	3
5841010963945	2300	2	0.022222	1.0387	2	1.55556	2	2.671712	3
5895001602198	2300	1	0.011111	0.6885	1	1.05392	2	1.843162	2
5985010537676	2300	2	0.022222	1.0387	2	1.55556	2	2.671712	3
5985011464630	2300	2	0.022222	1.0387	2	1.55556	2	2.671712	3
5998011230046	2300	2	0.022222	1.0387	2	1.55556	2	2.671712	3
6605005012379	2300	2	0.022222	1.0387	2	1.55556	2	2.671712	3
6615010427834	2300	1	0.011111	0.6885	1	1.05392	2	1.843162	2
6615011273160	2300	2	0.022222	1.0387	2	1.55556	2	2.671712	3
6615013528570	2300	2	0.022222	1.0387	2	1.55556	2	2.671712	3
6625008954446	2300	11	0.122222	3.1371	4	4.34917	5	6.966785	7
5810010508115	2500	12	0.133333	3.3333	4	4.59932	5	7.333333	8
5815010575286	2500	4	0.044444	1.5991	2	2.33006	3	3.908546	4
5821012287058	2500	2	0.022222	1.0387	2	1.55556	2	2.671712	3
5826005050793	2500	1	0.011111	0.6885	1	1.05392	2	1.843162	2
5826010121938	2500	2	0.022222	1.0387	2	1.55556	2	2.671712	3
5826010124864	2500	2	0.022222	1.0387	2	1.55556	2	2.671712	3
5826012368622	2500	1	0.011111	0.6885	1	1.05392	2	1.843162	2
5831008093180	2500	2	0.022222	1.0387	2	1.55556	2	2.671712	3
5831009993916	2500	8	0.088889	2.5219	3	3.55556	4	5.787868	6
5840010073959	2500	2	0.022222	1.0387	2	1.55556	2	2.671712	3

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5841009743254	2500	3	0.033333	1.3333	2	1.96633	2	3.333333	4
5841010042227	2500	3	0.033333	1.3333	2	1.96633	2	3.333333	4
5841011423785	2500	1	0.011111	0.6885	1	1.05392	2	1.843162	2
5841011435778	2500	1	0.011111	0.6885	1	1.05392	2	1.843162	2
5841011435910	2500	3	0.033333	1.3333	2	1.96633	2	3.333333	4
5841011435912	2500	2	0.022222	1.0387	2	1.55556	2	2.671712	3
5841012827090	2500	2	0.022222	1.0387	2	1.55556	2	2.671712	3
5841012827093	2500	2	0.022222	1.0387	2	1.55556	2	2.671712	3
5895001491319	2500	12	0.133333	3.3333	4	4.59932	5	7.333333	8
5895001602198	2500	2	0.022222	1.0387	2	1.55556	2	2.671712	3
5895005051016	2500	2	0.022222	1.0387	2	1.55556	2	2.671712	3
5895010537839	2500	1	0.011111	0.6885	1	1.05392	2	1.843162	2
5895011287267	2500	2	0.022222	1.0387	2	1.55556	2	2.671712	3
6605005012379	2500	2	0.022222	1.0387	2	1.55556	2	2.671712	3
6615009732218	2500	2	0.022222	1.0387	2	1.55556	2	2.671712	3
6620005154541	2500	5	0.055556	1.8466	2	2.66374	3	4.428539	5
6645001506526	2500	4	0.044444	1.5991	2	2.33006	3	3.908546	4
6645009508599	2500	2	0.022222	1.0387	2	1.55556	2	2.671712	3
5810010269624	2520	10	0.111111	2.9369	3	4.09254	5	6.588337	7
5810010508115	2520	9	0.1	2.7321	3	3.82843	4	6.196152	7
5821001490676	2520	2	0.022222	1.0387	2	1.55556	2	2.671712	3
5821010621019	2520	2	0.022222	1.0387	2	1.55556	2	2.671712	3
5821011948160	2520	6	0.066667	2.0809	3	2.97607	3	4.909307	5
5821013115105	2520	2	0.022222	1.0387	2	1.55556	2	2.671712	3
5826005052222	2520	2	0.022222	1.0387	2	1.55556	2	2.671712	3
5826010121938	2520	2	0.022222	1.0387	2	1.55556	2	2.671712	3
5826010124864	2520	4	0.044444	1.5991	2	2.33006	3	3.908546	4
5826010456683	2520	1	0.011111	0.6885	1	1.05392	2	1.843162	2
5831000611577	2520	2	0.022222	1.0387	2	1.55556	2	2.671712	3
5831005391714	2520	2	0.022222	1.0387	2	1.55556	2	2.671712	3
5831009993916	2520	4	0.044444	1.5991	2	2.33006	3	3.908546	4
5841008047159	2520	2	0.022222	1.0387	2	1.55556	2	2.671712	3
5841010537872	2520	5	0.055556	1.8466	2	2.66374	3	4.428539	5
5841010781344	2520	1	0.011111	0.6885	1	1.05392	2	1.843162	2
5841012827090	2520	1	0.011111	0.6885	1	1.05392	2	1.843162	2
5895010537839	2520	3	0.033333	1.3333	2	1.96633	2	3.333333	4
5985011515848	2520	1	0.011111	0.6885	1	1.05392	2	1.843162	2
6605005569318	2520	1	0.011111	0.6885	1	1.05392	2	1.843162	2
6605006202801	2520	1	0.011111	0.6885	1	1.05392	2	1.843162	2
6610000180683	2520	2	0.022222	1.0387	2	1.55556	2	2.671712	3
6625004713174	2520	1	0.011111	0.6885	1	1.05392	2	1.843162	2
6625008954446	2520	1	0.011111	0.6885	1	1.05392	2	1.843162	2
1270010932256	2805	3	0.033333	1.3333	2	1.96633	2	3.333333	4
1270010948505	2805	1	0.011111	0.6885	1	1.05392	2	1.843162	2
1270012383662	2805	6	0.066667	2.0809	3	2.97607	3	4.909307	5
1280011163832	2805	2	0.022222	1.0387	2	1.55556	2	2.671712	3
1280011216879	2805	4	0.044444	1.5991	2	2.33006	3	3.908546	4
1280011458646	2805	4	0.044444	1.5991	2	2.33006	3	3.908546	4

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1280011509022	2805	1	0.011111	0.6885	1	1.05392	2	1.843162	2
1280012601019	2805	1	0.011111	0.6885	1	1.05392	2	1.843162	2
1660011486207	2805	1	0.011111	0.6885	1	1.05392	2	1.843162	2
1680011874063	2805	3	0.033333	1.3333	2	1.96633	2	3.333333	4
5810000613386	2805	2	0.022222	1.0387	2	1.55556	2	2.671712	3
5810010269624	2805	2	0.022222	1.0387	2	1.55556	2	2.671712	3
5810010508116	2805	1	0.011111	0.6885	1	1.05392	2	1.843162	2
5821010771313	2805	4	0.044444	1.5991	2	2.33006	3	3.908546	4
5821012287058	2805	1	0.011111	0.6885	1	1.05392	2	1.843162	2
5826001345970	2805	1	0.011111	0.6885	1	1.05392	2	1.843162	2
5826001345976	2805	1	0.011111	0.6885	1	1.05392	2	1.843162	2
5826010121938	2805	10	0.111111	2.9369	3	4.09254	5	6.588337	7
5826010124864	2805	2	0.022222	1.0387	2	1.55556	2	2.671712	3
5831008093180	2805	2	0.022222	1.0387	2	1.55556	2	2.671712	3
5836010512886	2805	1	0.011111	0.6885	1	1.05392	2	1.843162	2
5841010568647	2805	1	0.011111	0.6885	1	1.05392	2	1.843162	2
5841011274935	2805	3	0.033333	1.3333	2	1.96633	2	3.333333	4
5841011507427	2805	2	0.022222	1.0387	2	1.55556	2	2.671712	3
5841012857896	2805	3	0.033333	1.3333	2	1.96633	2	3.333333	4
5895011074586	2805	10	0.111111	2.9369	3	4.09254	5	6.588337	7
5945011709363	2805	2	0.022222	1.0387	2	1.55556	2	2.671712	3
5985010537676	2805	1	0.011111	0.6885	1	1.05392	2	1.843162	2
5985012827891	2805	1	0.011111	0.6885	1	1.05392	2	1.843162	2
5990007178111	2805	2	0.022222	1.0387	2	1.55556	2	2.671712	3
6220011756188	2805	1	0.011111	0.6885	1	1.05392	2	1.843162	2
6605010424831	2805	6	0.066667	2.0809	3	2.97607	3	4.909307	5
6605010876645	2805	2	0.022222	1.0387	2	1.55556	2	2.671712	3
6610002963574	2805	2	0.022222	1.0387	2	1.55556	2	2.671712	3
6610003142480	2805	1	0.011111	0.6885	1	1.05392	2	1.843162	2
6610007198446	2805	2	0.022222	1.0387	2	1.55556	2	2.671712	3
6610010379144	2805	3	0.033333	1.3333	2	1.96633	2	3.333333	4
6610011676617	2805	2	0.022222	1.0387	2	1.55556	2	2.671712	3
6610012594655	2805	1	0.011111	0.6885	1	1.05392	2	1.843162	2
6610012628319	2805	8	0.088889	2.5219	3	3.55556	4	5.787868	6
6610012695437	2805	2	0.022222	1.0387	2	1.55556	2	2.671712	3
6610013449239	2805	2	0.022222	1.0387	2	1.55556	2	2.671712	3
6615006244321	2805	2	0.022222	1.0387	2	1.55556	2	2.671712	3
6615009732218	2805	4	0.044444	1.5991	2	2.33006	3	3.908546	4
6615010351092	2805	2	0.022222	1.0387	2	1.55556	2	2.671712	3
6615012754675	2805	1	0.011111	0.6885	1	1.05392	2	1.843162	2
6620001249515	2805	8	0.088889	2.5219	3	3.55556	4	5.787868	6
6620011829763	2805	3	0.033333	1.3333	2	1.96633	2	3.333333	4
6620012652887	2805	2	0.022222	1.0387	2	1.55556	2	2.671712	3
6645001506526	2805	4	0.044444	1.5991	2	2.33006	3	3.908546	4
6680011033419	2805	5	0.055556	1.8466	2	2.66374	3	4.428539	5
6680013570388	2805	1	0.011111	0.6885	1	1.05392	2	1.843162	2
6685013033675	2805	1	0.011111	0.6885	1	1.05392	2	1.843162	2
6695001516748	2805	2	0.022222	1.0387	2	1.55556	2	2.671712	3
7025011963702	2805	3	0.033333	1.3333	2	1.96633	2	3.333333	4

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1260012372273	2823	2	0.022222	1.0387	2	1.55556	2	2.671712	3
1260012511150	2823	1	0.011111	0.6885	1	1.05392	2	1.843162	2
1270002135877	2823	4	0.044444	1.5991	2	2.33006	3	3.908546	4
1270010469884	2823	13	0.144444	3.5261	4	4.84379	5	7.689442	8
1270010932256	2823	1	0.011111	0.6885	1	1.05392	2	1.843162	2
1270010948505	2823	2	0.022222	1.0387	2	1.55556	2	2.671712	3
1270011022963	2823	1	0.011111	0.6885	1	1.05392	2	1.843162	2
1270011022966	2823	2	0.022222	1.0387	2	1.55556	2	2.671712	3
1270011229955	2823	1	0.011111	0.6885	1	1.05392	2	1.843162	2
1270012223829	2823	1	0.011111	0.6885	1	1.05392	2	1.843162	2
1270012319800	2823	1	0.011111	0.6885	1	1.05392	2	1.843162	2
1270012330011	2823	7	0.077778	2.3053	3	3.27222	4	5.360353	6
1270012383662	2823	1	0.011111	0.6885	1	1.05392	2	1.843162	2
1270012566538	2823	4	0.044444	1.5991	2	2.33006	3	3.908546	4
1270013333608	2823	2	0.022222	1.0387	2	1.55556	2	2.671712	3
1270992512706	2823	2	0.022222	1.0387	2	1.55556	2	2.671712	3
1280013200787	2823	6	0.066667	2.0809	3	2.97607	3	4.909307	5
1290011091499	2823	6	0.066667	2.0809	3	2.97607	3	4.909307	5
1290012279260	2823	2	0.022222	1.0387	2	1.55556	2	2.671712	3
1680010041244	2823	1	0.011111	0.6885	1	1.05392	2	1.843162	2
1680010325251	2823	6	0.066667	2.0809	3	2.97607	3	4.909307	5
1680010652355	2823	2	0.022222	1.0387	2	1.55556	2	2.671712	3
1680011390166	2823	2	0.022222	1.0387	2	1.55556	2	2.671712	3
1680011572424	2823	2	0.022222	1.0387	2	1.55556	2	2.671712	3
1680011596742	2823	12	0.133333	3.3333	4	4.59932	5	7.333333	8
5810004490154	2823	5	0.055556	1.8466	2	2.66374	3	4.428539	5
5810010269624	2823	1	0.011111	0.6885	1	1.05392	2	1.843162	2
5810010508115	2823	6	0.066667	2.0809	3	2.97607	3	4.909307	5
5810010509968	2823	1	0.011111	0.6885	1	1.05392	2	1.843162	2
5810012737820	2823	4	0.044444	1.5991	2	2.33006	3	3.908546	4
5821010621019	2823	9	0.1	2.7321	3	3.82843	4	6.196152	7
5821011038155	2823	2	0.022222	1.0387	2	1.55556	2	2.671712	3
5821011365467	2823	1	0.011111	0.6885	1	1.05392	2	1.843162	2
5821011369512	2823	1	0.011111	0.6885	1	1.05392	2	1.843162	2
5821012287058	2823	23	0.255556	5.3244	6	7.07711	8	10.86218	11
5821012587579	2823	2	0.022222	1.0387	2	1.55556	2	2.671712	3
5821012866543	2823	3	0.033333	1.3333	2	1.96633	2	3.333333	4
5826005053094	2823	2	0.022222	1.0387	2	1.55556	2	2.671712	3
5826010121938	2823	6	0.066667	2.0809	3	2.97607	3	4.909307	5
5826010124864	2823	2	0.022222	1.0387	2	1.55556	2	2.671712	3
5826010211744	2823	1	0.011111	0.6885	1	1.05392	2	1.843162	2
5831000611577	2823	1	0.011111	0.6885	1	1.05392	2	1.843162	2
5831000784969	2823	1	0.011111	0.6885	1	1.05392	2	1.843162	2
5831005235328	2823	1	0.011111	0.6885	1	1.05392	2	1.843162	2
5831008802834	2823	12	0.133333	3.3333	4	4.59932	5	7.333333	8
5836010512886	2823	7	0.077778	2.3053	3	3.27222	4	5.360353	6
5841008047159	2823	1	0.011111	0.6885	1	1.05392	2	1.843162	2
5841010781344	2823	2	0.022222	1.0387	2	1.55556	2	2.671712	3
5841012827093	2823	2	0.022222	1.0387	2	1.55556	2	2.671712	3
5865010775162	2823	2	0.022222	1.0387	2	1.55556	2	2.671712	3

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5865011003768	2823	2	0.022222	1.0387	2	1.55556	2	2.671712	3
5865011106043	2823	2	0.022222	1.0387	2	1.55556	2	2.671712	3
5865011251667	2823	2	0.022222	1.0387	2	1.55556	2	2.671712	3
5865012112335	2823	2	0.022222	1.0387	2	1.55556	2	2.671712	3
5865013088894	2823	1	0.011111	0.6885	1	1.05392	2	1.843162	2
5865013100163	2823	2	0.022222	1.0387	2	1.55556	2	2.671712	3
5865013249103	2823	15	0.166667	3.9027	4	5.31815	6	8.374871	9
5895000894522	2823	6	0.066667	2.0809	3	2.97607	3	4.909307	5
5895003409619	2823	5	0.055556	1.8466	2	2.66374	3	4.428539	5
5895003496061	2823	2	0.022222	1.0387	2	1.55556	2	2.671712	3
5895004263144	2823	2	0.022222	1.0387	2	1.55556	2	2.671712	3
5895010418257	2823	2	0.022222	1.0387	2	1.55556	2	2.671712	3
5895010959593	2823	2	0.022222	1.0387	2	1.55556	2	2.671712	3
5895011074586	2823	2	0.022222	1.0387	2	1.55556	2	2.671712	3
5895011126380	2823	22	0.244444	5.1525	6	6.86661	7	10.56848	11
5895011354647	2823	2	0.022222	1.0387	2	1.55556	2	2.671712	3
5895011435443	2823	1	0.011111	0.6885	1	1.05392	2	1.843162	2
5895011549125	2823	6	0.066667	2.0809	3	2.97607	3	4.909307	5
5895011631762	2823	2	0.022222	1.0387	2	1.55556	2	2.671712	3
5895011736012	2823	2	0.022222	1.0387	2	1.55556	2	2.671712	3
5895011875699	2823	2	0.022222	1.0387	2	1.55556	2	2.671712	3
5895012301075	2823	2	0.022222	1.0387	2	1.55556	2	2.671712	3
5895012490130	2823	2	0.022222	1.0387	2	1.55556	2	2.671712	3
5895012728047	2823	11	0.122222	3.1371	4	4.34917	5	6.966785	7
5895012731990	2823	4	0.044444	1.5991	2	2.33006	3	3.908546	4
5895012834089	2823	1	0.011111	0.6885	1	1.05392	2	1.843162	2
5895013296324	2823	10	0.111111	2.9369	3	4.09254	5	6.588337	7
5895013455140	2823	1	0.011111	0.6885	1	1.05392	2	1.843162	2
5930010920386	2823	4	0.044444	1.5991	2	2.33006	3	3.908546	4
5930011729448	2823	16	0.177778	4.0872	5	5.54901	6	8.705981	9
5945011709363	2823	2	0.022222	1.0387	2	1.55556	2	2.671712	3
5985010932174	2823	2	0.022222	1.0387	2	1.55556	2	2.671712	3
5985011515848	2823	7	0.077778	2.3053	3	3.27222	4	5.360353	6
5985012122950	2823	4	0.044444	1.5991	2	2.33006	3	3.908546	4
5985012827891	2823	1	0.011111	0.6885	1	1.05392	2	1.843162	2
5985012827892	2823	2	0.022222	1.0387	2	1.55556	2	2.671712	3
5985013083647	2823	4	0.044444	1.5991	2	2.33006	3	3.908546	4
5998011230046	2823	2	0.022222	1.0387	2	1.55556	2	2.671712	3
5998011896233	2823	2	0.022222	1.0387	2	1.55556	2	2.671712	3
5998013309073	2823	1	0.011111	0.6885	1	1.05392	2	1.843162	2
6130010568665	2823	4	0.044444	1.5991	2	2.33006	3	3.908546	4
6340003327300	2823	3	0.033333	1.3333	2	1.96633	2	3.333333	4
6605001491134	2823	15	0.166667	3.9027	4	5.31815	6	8.374871	9
6605003142536	2823	3	0.033333	1.3333	2	1.96633	2	3.333333	4
6605005012379	2823	2	0.022222	1.0387	2	1.55556	2	2.671712	3
6605010423133	2823	2	0.022222	1.0387	2	1.55556	2	2.671712	3
6605010424831	2823	38	0.422222	7.7812	8	10.0341	11	14.8993	15
6605010876645	2823	2	0.022222	1.0387	2	1.55556	2	2.671712	3
6605010903390	2823	2	0.022222	1.0387	2	1.55556	2	2.671712	3
6605010940775	2823	39	0.433333	7.9389	8	10.2212	11	15.14999	16

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6605010976221	2823	2	0.022222	1.0387	2	1.55556	2	2.671712	3
6605993708249	2823	1	0.011111	0.6885	1	1.05392	2	1.843162	2
6610000000122	2823	10	0.111111	2.9369	3	4.09254	5	6.588337	7
6610001342259	2823	19	0.211111	4.6277	5	6.22072	7	9.660946	10
6610001342260	2823	2	0.022222	1.0387	2	1.55556	2	2.671712	3
6610002963574	2823	8	0.088889	2.5219	3	3.55556	4	5.787868	6
6610003142480	2823	13	0.144444	3.5261	4	4.84379	5	7.689442	8
6610003293495	2823	8	0.088889	2.5219	3	3.55556	4	5.787868	6
6610003494184	2823	14	0.155556	3.7158	4	5.08322	6	8.036296	9
6610005357722	2823	15	0.166667	3.9027	4	5.31815	6	8.374871	9
6610007198446	2823	6	0.066667	2.0809	3	2.97607	3	4.909307	5
6610010379144	2823	7	0.077778	2.3053	3	3.27222	4	5.360353	6
6610010754745	2823	2	0.022222	1.0387	2	1.55556	2	2.671712	3
6610011676617	2823	4	0.044444	1.5991	2	2.33006	3	3.908546	4
6610013081859	2823	6	0.066667	2.0809	3	2.97607	3	4.909307	5
6615001377514	2823	15	0.166667	3.9027	4	5.31815	6	8.374871	9
6615002624314	2823	1	0.011111	0.6885	1	1.05392	2	1.843162	2
6615003036730	2823	2	0.022222	1.0387	2	1.55556	2	2.671712	3
6615006172878	2823	2	0.022222	1.0387	2	1.55556	2	2.671712	3
6615010154794	2823	2	0.022222	1.0387	2	1.55556	2	2.671712	3
6615010427834	2823	1	0.011111	0.6885	1	1.05392	2	1.843162	2
6615010844995	2823	3	0.033333	1.3333	2	1.96633	2	3.333333	4
6615011273160	2823	2	0.022222	1.0387	2	1.55556	2	2.671712	3
6615011484182	2823	6	0.066667	2.0809	3	2.97607	3	4.909307	5
6615013517337	2823	1	0.011111	0.6885	1	1.05392	2	1.843162	2
6620001249515	2823	14	0.155556	3.7158	4	5.08322	6	8.036296	9
6620001487306	2823	10	0.111111	2.9369	3	4.09254	5	6.588337	7
6620004689824	2823	1	0.011111	0.6885	1	1.05392	2	1.843162	2
6620005154541	2823	4	0.044444	1.5991	2	2.33006	3	3.908546	4
6625004713174	2823	4	0.044444	1.5991	2	2.33006	3	3.908546	4
6625011938861	2823	5	0.055556	1.8466	2	2.66374	3	4.428539	5
6680011033419	2823	12	0.133333	3.3333	4	4.59932	5	7.333333	8
6680011066215	2823	1	0.011111	0.6885	1	1.05392	2	1.843162	2
6685010482889	2823	27	0.3	6	6	7.89898	8	12	12
7025011963702	2823	5	0.055556	1.8466	2	2.66374	3	4.428539	5
5810010508115	3010	3	0.033333	1.3333	2	1.96633	2	3.333333	4
5821010621019	3010	6	0.066667	2.0809	3	2.97607	3	4.909307	5
5821011369512	3010	2	0.022222	1.0387	2	1.55556	2	2.671712	3
5821012866543	3010	2	0.022222	1.0387	2	1.55556	2	2.671712	3
5821013115105	3010	1	0.011111	0.6885	1	1.05392	2	1.843162	2
5826005050793	3010	2	0.022222	1.0387	2	1.55556	2	2.671712	3
5826005053094	3010	1	0.011111	0.6885	1	1.05392	2	1.843162	2
5826010121938	3010	3	0.033333	1.3333	2	1.96633	2	3.333333	4
5826010124864	3010	1	0.011111	0.6885	1	1.05392	2	1.843162	2
5831000611577	3010	2	0.022222	1.0387	2	1.55556	2	2.671712	3
5831008093180	3010	2	0.022222	1.0387	2	1.55556	2	2.671712	3
5831009993916	3010	2	0.022222	1.0387	2	1.55556	2	2.671712	3
5840010073959	3010	2	0.022222	1.0387	2	1.55556	2	2.671712	3
5841009743254	3010	5	0.055556	1.8466	2	2.66374	3	4.428539	5

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5841011423767	3010	1	0.011111	0.6885	1	1.05392	2	1.843162	2
5841011435358	3010	3	0.033333	1.3333	2	1.96633	2	3.333333	4
5841011435912	3010	3	0.033333	1.3333	2	1.96633	2	3.333333	4
5841012029769	3010	1	0.011111	0.6885	1	1.05392	2	1.843162	2
5841012644422	3010	1	0.011111	0.6885	1	1.05392	2	1.843162	2
5841012827090	3010	5	0.055556	1.8466	2	2.66374	3	4.428539	5
5841012827093	3010	5	0.055556	1.8466	2	2.66374	3	4.428539	5
5895000395432	3010	2	0.022222	1.0387	2	1.55556	2	2.671712	3
5895000395455	3010	1	0.011111	0.6885	1	1.05392	2	1.843162	2
5895001491319	3010	2	0.022222	1.0387	2	1.55556	2	2.671712	3
5895001602198	3010	2	0.022222	1.0387	2	1.55556	2	2.671712	3
5895003477178	3010	4	0.044444	1.5991	2	2.33006	3	3.908546	4
5895005071381	3010	1	0.011111	0.6885	1	1.05392	2	1.843162	2
5895010537839	3010	8	0.088889	2.5219	3	3.55556	4	5.787868	6
5985012827891	3010	3	0.033333	1.3333	2	1.96633	2	3.333333	4
5985012827892	3010	2	0.022222	1.0387	2	1.55556	2	2.671712	3
6130000410372	3010	2	0.022222	1.0387	2	1.55556	2	2.671712	3
6615009732218	3010	2	0.022222	1.0387	2	1.55556	2	2.671712	3
6615012253746	3010	2	0.022222	1.0387	2	1.55556	2	2.671712	3
6620005154541	3010	2	0.022222	1.0387	2	1.55556	2	2.671712	3
6625004713174	3010	2	0.022222	1.0387	2	1.55556	2	2.671712	3
6645009508599	3010	5	0.055556	1.8466	2	2.66374	3	4.428539	5
1270013093077	3020	1	0.011111	0.6885	1	1.05392	2	1.843162	2
1270013624867	3020	1	0.011111	0.6885	1	1.05392	2	1.843162	2
1280004050630	3020	2	0.022222	1.0387	2	1.55556	2	2.671712	3
1280004050631	3020	2	0.022222	1.0387	2	1.55556	2	2.671712	3
1280011163832	3020	4	0.044444	1.5991	2	2.33006	3	3.908546	4
1280011512272	3020	2	0.022222	1.0387	2	1.55556	2	2.671712	3
1280011730534	3020	2	0.022222	1.0387	2	1.55556	2	2.671712	3
1280012270719	3020	2	0.022222	1.0387	2	1.55556	2	2.671712	3
1280012287260	3020	2	0.022222	1.0387	2	1.55556	2	2.671712	3
1280012287261	3020	2	0.022222	1.0387	2	1.55556	2	2.671712	3
5821011376301	3020	22	0.244444	5.1525	6	6.86661	7	10.56848	11
5821011416133	3020	11	0.122222	3.1371	4	4.34917	5	6.966785	7
5826010121919	3020	2	0.022222	1.0387	2	1.55556	2	2.671712	3
5826010121938	3020	4	0.044444	1.5991	2	2.33006	3	3.908546	4
5826010124864	3020	4	0.044444	1.5991	2	2.33006	3	3.908546	4
5826012371912	3020	6	0.066667	2.0809	3	2.97607	3	4.909307	5
5831005235328	3020	2	0.022222	1.0387	2	1.55556	2	2.671712	3
6610008724303	3020	2	0.022222	1.0387	2	1.55556	2	2.671712	3
6620005154541	3020	4	0.044444	1.5991	2	2.33006	3	3.908546	4
6625004713174	3020	5	0.055556	1.8466	2	2.66374	3	4.428539	5
6625008954446	3020	2	0.022222	1.0387	2	1.55556	2	2.671712	3
6645001506526	3020	11	0.122222	3.1371	4	4.34917	5	6.966785	7
6645008805927	3020	4	0.044444	1.5991	2	2.33006	3	3.908546	4
6645009508599	3020	2	0.022222	1.0387	2	1.55556	2	2.671712	3
6695001516748	3020	2	0.022222	1.0387	2	1.55556	2	2.671712	3
5810010508115	3300	12	0.133333	3.3333	4	4.59932	5	7.333333	8

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5821010621019	3300	1	0.011111	0.6885	1	1.05392	2	1.843162	2
5821012287058	3300	2	0.022222	1.0387	2	1.55556	2	2.671712	3
5826010121938	3300	4	0.044444	1.5991	2	2.33006	3	3.908546	4
5841010042227	3300	2	0.022222	1.0387	2	1.55556	2	2.671712	3
5841010931491	3300	6	0.066667	2.0809	3	2.97607	3	4.909307	5
5841011423785	3300	3	0.033333	1.3333	2	1.96633	2	3.333333	4
5841011435778	3300	1	0.011111	0.6885	1	1.05392	2	1.843162	2
5841011435912	3300	6	0.066667	2.0809	3	2.97607	3	4.909307	5
5841012827090	3300	1	0.011111	0.6885	1	1.05392	2	1.843162	2
5841012827093	3300	2	0.022222	1.0387	2	1.55556	2	2.671712	3
5841012830065	3300	1	0.011111	0.6885	1	1.05392	2	1.843162	2
5895012834089	3300	2	0.022222	1.0387	2	1.55556	2	2.671712	3
5985012827892	3300	2	0.022222	1.0387	2	1.55556	2	2.671712	3
6620005154541	3300	2	0.022222	1.0387	2	1.55556	2	2.671712	3
6645009508599	3300	1	0.011111	0.6885	1	1.05392	2	1.843162	2
5810000613386	4417	10	0.111111	2.9369	3	4.09254	5	6.588337	7
5810004490154	4417	6	0.066667	2.0809	3	2.97607	3	4.909307	5
5810010269624	4417	4	0.044444	1.5991	2	2.33006	3	3.908546	4
5810010508115	4417	4	0.044444	1.5991	2	2.33006	3	3.908546	4
5810010509968	4417	2	0.022222	1.0387	2	1.55556	2	2.671712	3
5810010842200	4417	2	0.022222	1.0387	2	1.55556	2	2.671712	3
5810011786995	4417	2	0.022222	1.0387	2	1.55556	2	2.671712	3
5821010621019	4417	12	0.133333	3.3333	4	4.59932	5	7.333333	8
5821011038155	4417	2	0.022222	1.0387	2	1.55556	2	2.671712	3
5821012287058	4417	31	0.344444	6.659	7	8.69378	9	13.0881	14
5821012587579	4417	3	0.033333	1.3333	2	1.96633	2	3.333333	4
5821012866543	4417	1	0.011111	0.6885	1	1.05392	2	1.843162	2
5826002266030	4417	2	0.022222	1.0387	2	1.55556	2	2.671712	3
5826002750612	4417	2	0.022222	1.0387	2	1.55556	2	2.671712	3
5826005356629	4417	1	0.011111	0.6885	1	1.05392	2	1.843162	2
5826010121938	4417	10	0.111111	2.9369	3	4.09254	5	6.588337	7
5826010124864	4417	1	0.011111	0.6885	1	1.05392	2	1.843162	2
5826010329930	4417	6	0.066667	2.0809	3	2.97607	3	4.909307	5
5831000611577	4417	10	0.111111	2.9369	3	4.09254	5	6.588337	7
5831005235328	4417	7	0.077778	2.3053	3	3.27222	4	5.360353	6
5831005391714	4417	2	0.022222	1.0387	2	1.55556	2	2.671712	3
5831008093179	4417	2	0.022222	1.0387	2	1.55556	2	2.671712	3
5831008802834	4417	8	0.088889	2.5219	3	3.55556	4	5.787868	6
5831009993916	4417	4	0.044444	1.5991	2	2.33006	3	3.908546	4
5841012827090	4417	2	0.022222	1.0387	2	1.55556	2	2.671712	3
5841012918393	4417	4	0.044444	1.5991	2	2.33006	3	3.908546	4
5865010211647	4417	2	0.022222	1.0387	2	1.55556	2	2.671712	3
5865010775162	4417	4	0.044444	1.5991	2	2.33006	3	3.908546	4
5865011106043	4417	6	0.066667	2.0809	3	2.97607	3	4.909307	5
5865012698062	4417	2	0.022222	1.0387	2	1.55556	2	2.671712	3
5865012702234	4417	1	0.011111	0.6885	1	1.05392	2	1.843162	2
5865013077305	4417	6	0.066667	2.0809	3	2.97607	3	4.909307	5
5865013249103	4417	14	0.155556	3.7158	4	5.08322	6	8.036296	9
5865013252225	4417	2	0.022222	1.0387	2	1.55556	2	2.671712	3

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5895000894522	4417	10	0.111111	2.9369	3	4.09254	5	6.588337	7
5895001602198	4417	2	0.022222	1.0387	2	1.55556	2	2.671712	3
5895005071381	4417	1	0.011111	0.6885	1	1.05392	2	1.843162	2
5895009992411	4417	2	0.022222	1.0387	2	1.55556	2	2.671712	3
5895011549125	4417	8	0.088889	2.5219	3	3.55556	4	5.787868	6
5895013102157	4417	6	0.066667	2.0809	3	2.97607	3	4.909307	5
5930010920386	4417	13	0.144444	3.5261	4	4.84379	5	7.689442	8
5985011041424	4417	3	0.033333	1.3333	2	1.96633	2	3.333333	4
5985011515848	4417	2	0.022222	1.0387	2	1.55556	2	2.671712	3
6605004479654	4417	2	0.022222	1.0387	2	1.55556	2	2.671712	3
6610001691601	4417	1	0.011111	0.6885	1	1.05392	2	1.843162	2
6625004713174	4417	1	0.011111	0.6885	1	1.05392	2	1.843162	2
6645001506526	4417	2	0.022222	1.0387	2	1.55556	2	2.671712	3
7025011726541	4417	2	0.022222	1.0387	2	1.55556	2	2.671712	3
1680008699545	4418	2	0.022222	1.0387	2	1.55556	2	2.671712	3
5810010508116	4418	12	0.133333	3.3333	4	4.59932	5	7.333333	8
5810011734045	4418	2	0.022222	1.0387	2	1.55556	2	2.671712	3
5810011790665	4418	2	0.022222	1.0387	2	1.55556	2	2.671712	3
5821010621019	4418	13	0.144444	3.5261	4	4.84379	5	7.689442	8
5821011136476	4418	31	0.344444	6.659	7	8.69378	9	13.0881	14
5821011659342	4418	1	0.011111	0.6885	1	1.05392	2	1.843162	2
5821012137333	4418	4	0.044444	1.5991	2	2.33006	3	3.908546	4
5821012587579	4418	1	0.011111	0.6885	1	1.05392	2	1.843162	2
5821012866543	4418	1	0.011111	0.6885	1	1.05392	2	1.843162	2
5821013123525	4418	8	0.088889	2.5219	3	3.55556	4	5.787868	6
5826009731914	4418	4	0.044444	1.5991	2	2.33006	3	3.908546	4
5826009731916	4418	21	0.233333	4.9791	5	6.65383	7	10.27059	11
5826010121938	4418	2	0.022222	1.0387	2	1.55556	2	2.671712	3
5826010124864	4418	4	0.044444	1.5991	2	2.33006	3	3.908546	4
5826012371912	4418	6	0.066667	2.0809	3	2.97607	3	4.909307	5
5840010073959	4418	2	0.022222	1.0387	2	1.55556	2	2.671712	3
5841010891022	4418	4	0.044444	1.5991	2	2.33006	3	3.908546	4
5841010891064	4418	12	0.133333	3.3333	4	4.59932	5	7.333333	8
5841010918929	4418	10	0.111111	2.9369	3	4.09254	5	6.588337	7
5841011314516	4418	2	0.022222	1.0387	2	1.55556	2	2.671712	3
5841011423785	4418	1	0.011111	0.6885	1	1.05392	2	1.843162	2
5841011435358	4418	1	0.011111	0.6885	1	1.05392	2	1.843162	2
5841011435778	4418	4	0.044444	1.5991	2	2.33006	3	3.908546	4
5841011435912	4418	14	0.155556	3.7158	4	5.08322	6	8.036296	9
5841012029769	4418	2	0.022222	1.0387	2	1.55556	2	2.671712	3
5841012644422	4418	8	0.088889	2.5219	3	3.55556	4	5.787868	6
5865011106043	4418	2	0.022222	1.0387	2	1.55556	2	2.671712	3
5865012340860	4418	2	0.022222	1.0387	2	1.55556	2	2.671712	3
5895001602198	4418	33	0.366667	6.9833	7	9.08269	10	13.61654	14
5895009992411	4418	2	0.022222	1.0387	2	1.55556	2	2.671712	3
5895010418257	4418	2	0.022222	1.0387	2	1.55556	2	2.671712	3
5895011549125	4418	4	0.044444	1.5991	2	2.33006	3	3.908546	4
5985010890737	4418	5	0.055556	1.8466	2	2.66374	3	4.428539	5
5985011041424	4418	3	0.033333	1.3333	2	1.96633	2	3.333333	4

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5998000703123	4418	2	0.022222	1.0387	2	1.55556	2	2.671712	3
6340010557374	4418	7	0.077778	2.3053	3	3.27222	4	5.360353	6
6605010177729	4418	2	0.022222	1.0387	2	1.55556	2	2.671712	3
6605010177730	4418	2	0.022222	1.0387	2	1.55556	2	2.671712	3
6610009453125	4418	23	0.255556	5.3244	6	7.07711	8	10.86218	11
6610011326660	4418	28	0.311111	6.1662	7	8.09999	9	12.27626	13
6610011326661	4418	26	0.288889	5.8328	6	7.69629	8	11.72065	12
6610011440719	4418	12	0.133333	3.3333	4	4.59932	5	7.333333	8
6610012262152	4418	16	0.177778	4.0872	5	5.54901	6	8.705981	9
6615008667670	4418	1	0.011111	0.6885	1	1.05392	2	1.843162	2
6615009072838	4418	2	0.022222	1.0387	2	1.55556	2	2.671712	3
6615009363486	4418	2	0.022222	1.0387	2	1.55556	2	2.671712	3
6615009504212	4418	3	0.033333	1.3333	2	1.96633	2	3.333333	4
6615010177727	4418	6	0.066667	2.0809	3	2.97607	3	4.909307	5
6615010181635	4418	16	0.177778	4.0872	5	5.54901	6	8.705981	9
6625008954446	4418	1	0.011111	0.6885	1	1.05392	2	1.843162	2
6625011539893	4418	3	0.033333	1.3333	2	1.96633	2	3.333333	4
1650001575945	4419	2	0.022222	1.0387	2	1.55556	2	2.671712	3
1650004866297	4419	2	0.022222	1.0387	2	1.55556	2	2.671712	3
1650011780487	4419	1	0.011111	0.6885	1	1.05392	2	1.843162	2
1680008699545	4419	6	0.066667	2.0809	3	2.97607	3	4.909307	5
4920000782418	4419	1	0.011111	0.6885	1	1.05392	2	1.843162	2
4920002510569	4419	1	0.011111	0.6885	1	1.05392	2	1.843162	2
4920004630839	4419	1	0.011111	0.6885	1	1.05392	2	1.843162	2
4920011850755	4419	2	0.022222	1.0387	2	1.55556	2	2.671712	3
4920011850756	4419	3	0.033333	1.3333	2	1.96633	2	3.333333	4
4920012521038	4419	2	0.022222	1.0387	2	1.55556	2	2.671712	3
4920012521094	4419	3	0.033333	1.3333	2	1.96633	2	3.333333	4
4920012521097	4419	5	0.055556	1.8466	2	2.66374	3	4.428539	5
4920012802786	4419	3	0.033333	1.3333	2	1.96633	2	3.333333	4
4920012810250	4419	1	0.011111	0.6885	1	1.05392	2	1.843162	2
5810004490154	4419	2	0.022222	1.0387	2	1.55556	2	2.671712	3
5810010269624	4419	8	0.088889	2.5219	3	3.55556	4	5.787868	6
5810010508116	4419	3	0.033333	1.3333	2	1.96633	2	3.333333	4
5810010842200	4419	2	0.022222	1.0387	2	1.55556	2	2.671712	3
5821010621019	4419	14	0.155556	3.7158	4	5.08322	6	8.036296	9
5821010976218	4419	1	0.011111	0.6885	1	1.05392	2	1.843162	2
5821011038155	4419	3	0.033333	1.3333	2	1.96633	2	3.333333	4
5821011136476	4419	9	0.1	2.7321	3	3.82843	4	6.196152	7
5821011365467	4419	2	0.022222	1.0387	2	1.55556	2	2.671712	3
5821011659342	4419	15	0.166667	3.9027	4	5.31815	6	8.374871	9
5821012287058	4419	10	0.111111	2.9369	3	4.09254	5	6.588337	7
5821012587579	4419	2	0.022222	1.0387	2	1.55556	2	2.671712	3
5821012866543	4419	4	0.044444	1.5991	2	2.33006	3	3.908546	4
5821013117551	4419	10	0.111111	2.9369	3	4.09254	5	6.588337	7
5821013123525	4419	12	0.133333	3.3333	4	4.59932	5	7.333333	8
5826000606055	4419	2	0.022222	1.0387	2	1.55556	2	2.671712	3
5826001345966	4419	1	0.011111	0.6885	1	1.05392	2	1.843162	2
5826001345968	4419	1	0.011111	0.6885	1	1.05392	2	1.843162	2

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5826001345970	4419	2	0.022222	1.0387	2	1.55556	2	2.671712	3
5826001345971	4419	5	0.055556	1.8466	2	2.66374	3	4.428539	5
5826001345972	4419	8	0.088889	2.5219	3	3.55556	4	5.787868	6
5826001345973	4419	6	0.066667	2.0809	3	2.97607	3	4.909307	5
5826001345974	4419	1	0.011111	0.6885	1	1.05392	2	1.843162	2
5826001345976	4419	2	0.022222	1.0387	2	1.55556	2	2.671712	3
5826001345977	4419	8	0.088889	2.5219	3	3.55556	4	5.787868	6
5826001345979	4419	6	0.066667	2.0809	3	2.97607	3	4.909307	5
5826001345982	4419	2	0.022222	1.0387	2	1.55556	2	2.671712	3
5826001345984	4419	1	0.011111	0.6885	1	1.05392	2	1.843162	2
5826001345985	4419	1	0.011111	0.6885	1	1.05392	2	1.843162	2
5826002265171	4419	2	0.022222	1.0387	2	1.55556	2	2.671712	3
5826002755781	4419	1	0.011111	0.6885	1	1.05392	2	1.843162	2
5826004445276	4419	4	0.044444	1.5991	2	2.33006	3	3.908546	4
5826005053094	4419	6	0.066667	2.0809	3	2.97607	3	4.909307	5
5826006269874	4419	1	0.011111	0.6885	1	1.05392	2	1.843162	2
5826009178679	4419	10	0.111111	2.9369	3	4.09254	5	6.588337	7
5826009731914	4419	7	0.077778	2.3053	3	3.27222	4	5.360353	6
5826009731916	4419	2	0.022222	1.0387	2	1.55556	2	2.671712	3
5826010121919	4419	3	0.033333	1.3333	2	1.96633	2	3.333333	4
5826010121938	4419	18	0.2	4.4495	5	6	6	9.348469	10
5826010124864	4419	5	0.055556	1.8466	2	2.66374	3	4.428539	5
5826011521266	4419	1	0.011111	0.6885	1	1.05392	2	1.843162	2
5831002487225	4419	4	0.044444	1.5991	2	2.33006	3	3.908546	4
5831005195881	4419	2	0.022222	1.0387	2	1.55556	2	2.671712	3
5831005195883	4419	30	0.333333	6.4956	7	8.49731	9	12.82017	13
5831005384250	4419	2	0.022222	1.0387	2	1.55556	2	2.671712	3
5841008047159	4419	5	0.055556	1.8466	2	2.66374	3	4.428539	5
5841010537872	4419	1	0.011111	0.6885	1	1.05392	2	1.843162	2
5841010537874	4419	3	0.033333	1.3333	2	1.96633	2	3.333333	4
5841010568647	4419	7	0.077778	2.3053	3	3.27222	4	5.360353	6
5841010693756	4419	2	0.022222	1.0387	2	1.55556	2	2.671712	3
5841010781344	4419	2	0.022222	1.0387	2	1.55556	2	2.671712	3
5841010891022	4419	3	0.033333	1.3333	2	1.96633	2	3.333333	4
5841010891064	4419	11	0.122222	3.1371	4	4.34917	5	6.966785	7
5841010918929	4419	12	0.133333	3.3333	4	4.59932	5	7.333333	8
5841010931491	4419	3	0.033333	1.3333	2	1.96633	2	3.333333	4
5841011423785	4419	2	0.022222	1.0387	2	1.55556	2	2.671712	3
5841011435358	4419	1	0.011111	0.6885	1	1.05392	2	1.843162	2
5841011435912	4419	4	0.044444	1.5991	2	2.33006	3	3.908546	4
5841012029769	4419	1	0.011111	0.6885	1	1.05392	2	1.843162	2
5841012827090	4419	4	0.044444	1.5991	2	2.33006	3	3.908546	4
5841012827091	4419	9	0.1	2.7321	3	3.82843	4	6.196152	7
5841012827093	4419	23	0.255556	5.3244	6	7.07711	8	10.86218	11
5841012830065	4419	5	0.055556	1.8466	2	2.66374	3	4.428539	5
5841012918393	4419	6	0.066667	2.0809	3	2.97607	3	4.909307	5
5895000894522	4419	17	0.188889	4.2694	5	5.77619	6	9.030317	10
5895001602198	4419	10	0.111111	2.9369	3	4.09254	5	6.588337	7
5895003477178	4419	1	0.011111	0.6885	1	1.05392	2	1.843162	2
5895009001196	4419	2	0.022222	1.0387	2	1.55556	2	2.671712	3

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589500992411	4419	2	0.022222	1.0387	2	1.55556	2	2.671712	3
5895011287267	4419	2	0.022222	1.0387	2	1.55556	2	2.671712	3
5985010890737	4419	2	0.022222	1.0387	2	1.55556	2	2.671712	3
5985011041424	4419	8	0.088889	2.5219	3	3.55556	4	5.787868	6
5985012058599	4419	1	0.011111	0.6885	1	1.05392	2	1.843162	2
5985012827891	4419	3	0.033333	1.3333	2	1.96633	2	3.333333	4
5990007178111	4419	6	0.066667	2.0809	3	2.97607	3	4.909307	5
5998000703123	4419	4	0.044444	1.5991	2	2.33006	3	3.908546	4
5998011908294	4419	1	0.011111	0.6885	1	1.05392	2	1.843162	2
5998011908296	4419	2	0.022222	1.0387	2	1.55556	2	2.671712	3
5998011908297	4419	1	0.011111	0.6885	1	1.05392	2	1.843162	2
5998011909305	4419	1	0.011111	0.6885	1	1.05392	2	1.843162	2
5998011909307	4419	1	0.011111	0.6885	1	1.05392	2	1.843162	2
5998011917008	4419	2	0.022222	1.0387	2	1.55556	2	2.671712	3
5998011948121	4419	1	0.011111	0.6885	1	1.05392	2	1.843162	2
5998012898541	4419	2	0.022222	1.0387	2	1.55556	2	2.671712	3
5998012898947	4419	1	0.011111	0.6885	1	1.05392	2	1.843162	2
6130010568665	4419	4	0.044444	1.5991	2	2.33006	3	3.908546	4
6130012562076	4419	13	0.144444	3.5261	4	4.84379	5	7.689442	8
6340010557374	4419	2	0.022222	1.0387	2	1.55556	2	2.671712	3
6605005012379	4419	2	0.022222	1.0387	2	1.55556	2	2.671712	3
6605005569318	4419	8	0.088889	2.5219	3	3.55556	4	5.787868	6
6605006202801	4419	6	0.066667	2.0809	3	2.97607	3	4.909307	5
6605006517991	4419	2	0.022222	1.0387	2	1.55556	2	2.671712	3
6610000180682	4419	1	0.011111	0.6885	1	1.05392	2	1.843162	2
6610000180683	4419	1	0.011111	0.6885	1	1.05392	2	1.843162	2
6610001691601	4419	3	0.033333	1.3333	2	1.96633	2	3.333333	4
6610005061745	4419	5	0.055556	1.8466	2	2.66374	3	4.428539	5
6610008792788	4419	1	0.011111	0.6885	1	1.05392	2	1.843162	2
6610009453125	4419	6	0.066667	2.0809	3	2.97607	3	4.909307	5
6610011326660	4419	9	0.1	2.7321	3	3.82843	4	6.196152	7
6610011326661	4419	2	0.022222	1.0387	2	1.55556	2	2.671712	3
6610012262152	4419	2	0.022222	1.0387	2	1.55556	2	2.671712	3
6615001633181	4419	18	0.2	4.4495	5	6	6	9.348469	10
6615004117976	4419	11	0.122222	3.1371	4	4.34917	5	6.966785	7
6615005370580	4419	2	0.022222	1.0387	2	1.55556	2	2.671712	3
6615009078535	4419	2	0.022222	1.0387	2	1.55556	2	2.671712	3
6615009504212	4419	1	0.011111	0.6885	1	1.05392	2	1.843162	2
6615009732218	4419	17	0.188889	4.2694	5	5.77619	6	9.030317	10
6615010177727	4419	4	0.044444	1.5991	2	2.33006	3	3.908546	4
6615010181635	4419	12	0.133333	3.3333	4	4.59932	5	7.333333	8
6615010453887	4419	1	0.011111	0.6885	1	1.05392	2	1.843162	2
6615010453888	4419	2	0.022222	1.0387	2	1.55556	2	2.671712	3
6615011382369	4419	4	0.044444	1.5991	2	2.33006	3	3.908546	4
6615011877821	4419	8	0.088889	2.5219	3	3.55556	4	5.787868	6
6615012258241	4419	2	0.022222	1.0387	2	1.55556	2	2.671712	3
6615012477292	4419	10	0.111111	2.9369	3	4.09254	5	6.588337	7
6620012816386	4419	1	0.011111	0.6885	1	1.05392	2	1.843162	2
6620013055344	4419	4	0.044444	1.5991	2	2.33006	3	3.908546	4
6625004713174	4419	2	0.022222	1.0387	2	1.55556	2	2.671712	3

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6625011539893	4419	3	0.033333	1.3333	2	1.96633	2	3.333333	4
6645001506526	4419	3	0.033333	1.3333	2	1.96633	2	3.333333	4
6680011016437	4419	2	0.022222	1.0387	2	1.55556	2	2.671712	3
6680011016438	4419	2	0.022222	1.0387	2	1.55556	2	2.671712	3
1630011897830	4427	1	0.011111	0.6885	1	1.05392	2	1.843162	2
1650001575945	4427	1	0.011111	0.6885	1	1.05392	2	1.843162	2
1650004866297	4427	6	0.066667	2.0809	3	2.97607	3	4.909307	5
1650011780487	4427	4	0.044444	1.5991	2	2.33006	3	3.908546	4
1650013044171	4427	1	0.011111	0.6885	1	1.05392	2	1.843162	2
2840010491177	4427	1	0.011111	0.6885	1	1.05392	2	1.843162	2
2915001117770	4427	1	0.011111	0.6885	1	1.05392	2	1.843162	2
4810002399239	4427	3	0.033333	1.3333	2	1.96633	2	3.333333	4
4920000782418	4427	17	0.188889	4.2694	5	5.77619	6	9.030317	10
4920001344901	4427	1	0.011111	0.6885	1	1.05392	2	1.843162	2
4920001344902	4427	10	0.111111	2.9369	3	4.09254	5	6.588337	7
4920002391230	4427	5	0.055556	1.8466	2	2.66374	3	4.428539	5
4920002399000	4427	2	0.022222	1.0387	2	1.55556	2	2.671712	3
4920002467225	4427	2	0.022222	1.0387	2	1.55556	2	2.671712	3
4920002487123	4427	2	0.022222	1.0387	2	1.55556	2	2.671712	3
4920002487129	4427	2	0.022222	1.0387	2	1.55556	2	2.671712	3
4920002497147	4427	3	0.033333	1.3333	2	1.96633	2	3.333333	4
4920002497148	4427	1	0.011111	0.6885	1	1.05392	2	1.843162	2
4920002497149	4427	2	0.022222	1.0387	2	1.55556	2	2.671712	3
4920002497153	4427	5	0.055556	1.8466	2	2.66374	3	4.428539	5
4920002497154	4427	4	0.044444	1.5991	2	2.33006	3	3.908546	4
4920002510569	4427	6	0.066667	2.0809	3	2.97607	3	4.909307	5
4920002520162	4427	2	0.022222	1.0387	2	1.55556	2	2.671712	3
4920004000241	4427	2	0.022222	1.0387	2	1.55556	2	2.671712	3
4920004000243	4427	2	0.022222	1.0387	2	1.55556	2	2.671712	3
4920004003765	4427	2	0.022222	1.0387	2	1.55556	2	2.671712	3
4920004206295	4427	5	0.055556	1.8466	2	2.66374	3	4.428539	5
4920004265486	4427	1	0.011111	0.6885	1	1.05392	2	1.843162	2
4920004868836	4427	10	0.111111	2.9369	3	4.09254	5	6.588337	7
4920004896504	4427	14	0.155556	3.7158	4	5.08322	6	8.036296	9
4920005639126	4427	3	0.033333	1.3333	2	1.96633	2	3.333333	4
4920010347681	4427	18	0.2	4.4495	5	6	6	9.348469	10
4920011174366	4427	2	0.022222	1.0387	2	1.55556	2	2.671712	3
4920011185129	4427	9	0.1	2.7321	3	3.82843	4	6.196152	7
4920011850754	4427	16	0.177778	4.0872	5	5.54901	6	8.705981	9
4920011850755	4427	2	0.022222	1.0387	2	1.55556	2	2.671712	3
4920011850756	4427	2	0.022222	1.0387	2	1.55556	2	2.671712	3
4920012007194	4427	5	0.055556	1.8466	2	2.66374	3	4.428539	5
4920012034183	4427	2	0.022222	1.0387	2	1.55556	2	2.671712	3
4920012098961	4427	1	0.011111	0.6885	1	1.05392	2	1.843162	2
4920012100966	4427	1	0.011111	0.6885	1	1.05392	2	1.843162	2
4920012100969	4427	1	0.011111	0.6885	1	1.05392	2	1.843162	2
4920012521038	4427	12	0.133333	3.3333	4	4.59932	5	7.333333	8
4920012521094	4427	5	0.055556	1.8466	2	2.66374	3	4.428539	5
4920012521095	4427	6	0.066667	2.0809	3	2.97607	3	4.909307	5

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4920012521096	4427	2	0.022222	1.0387	2	1.55556	2	2.671712	3
4920012521097	4427	2	0.022222	1.0387	2	1.55556	2	2.671712	3
4920012767758	4427	3	0.033333	1.3333	2	1.96633	2	3.333333	4
4920012802786	4427	1	0.011111	0.6885	1	1.05392	2	1.843162	2
4920012810250	4427	2	0.022222	1.0387	2	1.55556	2	2.671712	3
4920012917299	4427	3	0.033333	1.3333	2	1.96633	2	3.333333	4
4920013112811	4427	2	0.022222	1.0387	2	1.55556	2	2.671712	3
4920013126007	4427	1	0.011111	0.6885	1	1.05392	2	1.843162	2
5810000613386	4427	3	0.033333	1.3333	2	1.96633	2	3.333333	4
5821010621019	4427	4	0.044444	1.5991	2	2.33006	3	3.908546	4
5821011136476	4427	4	0.044444	1.5991	2	2.33006	3	3.908546	4
5821011369512	4427	2	0.022222	1.0387	2	1.55556	2	2.671712	3
5821011376301	4427	3	0.033333	1.3333	2	1.96633	2	3.333333	4
5821011659342	4427	2	0.022222	1.0387	2	1.55556	2	2.671712	3
5821012137333	4427	1	0.011111	0.6885	1	1.05392	2	1.843162	2
5821012587579	4427	1	0.011111	0.6885	1	1.05392	2	1.843162	2
5821012587580	4427	4	0.044444	1.5991	2	2.33006	3	3.908546	4
5821012866543	4427	2	0.022222	1.0387	2	1.55556	2	2.671712	3
5821013117551	4427	2	0.022222	1.0387	2	1.55556	2	2.671712	3
5826000606055	4427	1	0.011111	0.6885	1	1.05392	2	1.843162	2
5826002265171	4427	4	0.044444	1.5991	2	2.33006	3	3.908546	4
5826010121919	4427	7	0.077778	2.3053	3	3.27222	4	5.360353	6
5826011945731	4427	1	0.011111	0.6885	1	1.05392	2	1.843162	2
5831005235328	4427	2	0.022222	1.0387	2	1.55556	2	2.671712	3
5841010891064	4427	12	0.133333	3.3333	4	4.59932	5	7.333333	8
5841010918929	4427	10	0.111111	2.9369	3	4.09254	5	6.588337	7
5841010931491	4427	7	0.077778	2.3053	3	3.27222	4	5.360353	6
5841011314516	4427	2	0.022222	1.0387	2	1.55556	2	2.671712	3
5841011435912	4427	1	0.011111	0.6885	1	1.05392	2	1.843162	2
5841012827091	4427	1	0.011111	0.6885	1	1.05392	2	1.843162	2
5841012827093	4427	3	0.033333	1.3333	2	1.96633	2	3.333333	4
5841012918393	4427	4	0.044444	1.5991	2	2.33006	3	3.908546	4
5895009992411	4427	7	0.077778	2.3053	3	3.27222	4	5.360353	6
5895011287267	4427	14	0.155556	3.7158	4	5.08322	6	8.036296	9
5985010890737	4427	12	0.133333	3.3333	4	4.59932	5	7.333333	8
5985011041424	4427	9	0.1	2.7321	3	3.82843	4	6.196152	7
5985011273039	4427	4	0.044444	1.5991	2	2.33006	3	3.908546	4
5985012058599	4427	6	0.066667	2.0809	3	2.97607	3	4.909307	5
5998000140041	4427	1	0.011111	0.6885	1	1.05392	2	1.843162	2
5998011908294	4427	13	0.144444	3.5261	4	4.84379	5	7.689442	8
5998011908295	4427	3	0.033333	1.3333	2	1.96633	2	3.333333	4
5998011908296	4427	8	0.088889	2.5219	3	3.55556	4	5.787868	6
5998011908297	4427	5	0.055556	1.8466	2	2.66374	3	4.428539	5
5998011908300	4427	3	0.033333	1.3333	2	1.96633	2	3.333333	4
5998011909305	4427	6	0.066667	2.0809	3	2.97607	3	4.909307	5
5998011909306	4427	6	0.066667	2.0809	3	2.97607	3	4.909307	5
5998011909307	4427	7	0.077778	2.3053	3	3.27222	4	5.360353	6
5998011917006	4427	10	0.111111	2.9369	3	4.09254	5	6.588337	7
5998011917007	4427	4	0.044444	1.5991	2	2.33006	3	3.908546	4
5998011917008	4427	3	0.033333	1.3333	2	1.96633	2	3.333333	4

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5998011948121	4427	4	0.044444	1.5991	2	2.33006	3	3.908546	4
5998012898541	4427	6	0.066667	2.0809	3	2.97607	3	4.909307	5
5999012800729	4427	2	0.022222	1.0387	2	1.55556	2	2.671712	3
5999012801750	4427	2	0.022222	1.0387	2	1.55556	2	2.671712	3
5999012801758	4427	1	0.011111	0.6885	1	1.05392	2	1.843162	2
6110011976781	4427	2	0.022222	1.0387	2	1.55556	2	2.671712	3
6130012562076	4427	4	0.044444	1.5991	2	2.33006	3	3.908546	4
6605004479654	4427	1	0.011111	0.6885	1	1.05392	2	1.843162	2
6605005569318	4427	2	0.022222	1.0387	2	1.55556	2	2.671712	3
6610000180682	4427	20	0.222222	4.8042	5	6.43859	7	9.968189	10
6610000180683	4427	25	0.277778	5.6645	6	7.49182	8	11.43803	12
6610001691601	4427	16	0.177778	4.0872	5	5.54901	6	8.705981	9
6610003715953	4427	2	0.022222	1.0387	2	1.55556	2	2.671712	3
6610005061745	4427	13	0.144444	3.5261	4	4.84379	5	7.689442	8
6610009453125	4427	7	0.077778	2.3053	3	3.27222	4	5.360353	6
6610011326660	4427	36	0.4	7.4641	8	9.65685	10	14.3923	15
6610011326661	4427	27	0.3	6	6	7.89898	8	12	12
6610011440719	4427	5	0.055556	1.8466	2	2.66374	3	4.428539	5
6610012262152	4427	12	0.133333	3.3333	4	4.59932	5	7.333333	8
6615001633181	4427	44	0.488889	8.7186	9	11.1428	12	16.37801	17
6615004117976	4427	14	0.155556	3.7158	4	5.08322	6	8.036296	9
6615005370580	4427	2	0.022222	1.0387	2	1.55556	2	2.671712	3
6615008667670	4427	4	0.044444	1.5991	2	2.33006	3	3.908546	4
6615009078535	4427	4	0.044444	1.5991	2	2.33006	3	3.908546	4
6615009363486	4427	2	0.022222	1.0387	2	1.55556	2	2.671712	3
6615010177727	4427	10	0.111111	2.9369	3	4.09254	5	6.588337	7
6615010181635	4427	8	0.088889	2.5219	3	3.55556	4	5.787868	6
6615010453887	4427	11	0.122222	3.1371	4	4.34917	5	6.966785	7
6615010453888	4427	11	0.122222	3.1371	4	4.34917	5	6.966785	7
6615010453889	4427	18	0.2	4.4495	5	6	6	9.348469	10
6615010453890	4427	2	0.022222	1.0387	2	1.55556	2	2.671712	3
6615010471190	4427	53	0.588889	10.092	11	12.7526	13	18.49841	19
6615011787652	4427	2	0.022222	1.0387	2	1.55556	2	2.671712	3
6615011877821	4427	15	0.166667	3.9027	4	5.31815	6	8.374871	9
6620011145760	4427	2	0.022222	1.0387	2	1.55556	2	2.671712	3
6620013055344	4427	6	0.066667	2.0809	3	2.97607	3	4.909307	5
6625004713174	4427	5	0.055556	1.8466	2	2.66374	3	4.428539	5
6625008954446	4427	1	0.011111	0.6885	1	1.05392	2	1.843162	2
6625012575269	4427	5	0.055556	1.8466	2	2.66374	3	4.428539	5
6645001506526	4427	2	0.022222	1.0387	2	1.55556	2	2.671712	3
6680011016437	4427	4	0.044444	1.5991	2	2.33006	3	3.908546	4
6680011016438	4427	2	0.022222	1.0387	2	1.55556	2	2.671712	3
5810010269624	4460	2	0.022222	1.0387	2	1.55556	2	2.671712	3
5810010508115	4460	11	0.122222	3.1371	4	4.34917	5	6.966785	7
5821010621019	4460	17	0.188889	4.2694	5	5.77619	6	9.030317	10
5821012287058	4460	15	0.166667	3.9027	4	5.31815	6	8.374871	9
5821012587579	4460	2	0.022222	1.0387	2	1.55556	2	2.671712	3
5821012866543	4460	1	0.011111	0.6885	1	1.05392	2	1.843162	2
5821013115105	4460	1	0.011111	0.6885	1	1.05392	2	1.843162	2

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5826002411011	4460	10	0.111111	2.9369	3	4.09254	5	6.588337	7
5826005050793	4460	11	0.122222	3.1371	4	4.34917	5	6.966785	7
5826005053094	4460	1	0.011111	0.6885	1	1.05392	2	1.843162	2
5826005356629	4460	2	0.022222	1.0387	2	1.55556	2	2.671712	3
5826010121938	4460	15	0.166667	3.9027	4	5.31815	6	8.374871	9
5826010124864	4460	4	0.044444	1.5991	2	2.33006	3	3.908546	4
5826010130861	4460	2	0.022222	1.0387	2	1.55556	2	2.671712	3
5826012368622	4460	3	0.033333	1.3333	2	1.96633	2	3.333333	4
5831004341287	4460	6	0.066667	2.0809	3	2.97607	3	4.909307	5
5831008093180	4460	5	0.055556	1.8466	2	2.66374	3	4.428539	5
5840010073959	4460	2	0.022222	1.0387	2	1.55556	2	2.671712	3
5841009743254	4460	8	0.088889	2.5219	3	3.55556	4	5.787868	6
5841010537872	4460	1	0.011111	0.6885	1	1.05392	2	1.843162	2
5841010568647	4460	1	0.011111	0.6885	1	1.05392	2	1.843162	2
5841010781344	4460	2	0.022222	1.0387	2	1.55556	2	2.671712	3
5841010931491	4460	2	0.022222	1.0387	2	1.55556	2	2.671712	3
5841011423785	4460	2	0.022222	1.0387	2	1.55556	2	2.671712	3
5841011435910	4460	1	0.011111	0.6885	1	1.05392	2	1.843162	2
5841011435912	4460	36	0.4	7.4641	8	9.65685	10	14.3923	15
5841012827090	4460	5	0.055556	1.8466	2	2.66374	3	4.428539	5
5841012827093	4460	10	0.111111	2.9369	3	4.09254	5	6.588337	7
5841012918393	4460	2	0.022222	1.0387	2	1.55556	2	2.671712	3
5895001602198	4460	21	0.233333	4.9791	5	6.65383	7	10.27059	11
5895005071381	4460	1	0.011111	0.6885	1	1.05392	2	1.843162	2
5895010533579	4460	1	0.011111	0.6885	1	1.05392	2	1.843162	2
5985011515848	4460	2	0.022222	1.0387	2	1.55556	2	2.671712	3
5985011540003	4460	3	0.033333	1.3333	2	1.96633	2	3.333333	4
5985012827891	4460	3	0.033333	1.3333	2	1.96633	2	3.333333	4
6130010568665	4460	2	0.022222	1.0387	2	1.55556	2	2.671712	3
6605005578206	4460	2	0.022222	1.0387	2	1.55556	2	2.671712	3
6615009732218	4460	10	0.111111	2.9369	3	4.09254	5	6.588337	7
6620005154541	4460	6	0.066667	2.0809	3	2.97607	3	4.909307	5
6625004713174	4460	2	0.022222	1.0387	2	1.55556	2	2.671712	3
6625008954446	4460	6	0.066667	2.0809	3	2.97607	3	4.909307	5
6645001506526	4460	2	0.022222	1.0387	2	1.55556	2	2.671712	3
6645009508599	4460	4	0.044444	1.5991	2	2.33006	3	3.908546	4
5810010508115	4469	2	0.022222	1.0387	2	1.55556	2	2.671712	3
5810010509968	4469	1	0.011111	0.6885	1	1.05392	2	1.843162	2
5821001490676	4469	1	0.011111	0.6885	1	1.05392	2	1.843162	2
5821010621019	4469	3	0.033333	1.3333	2	1.96633	2	3.333333	4
5821012287058	4469	3	0.033333	1.3333	2	1.96633	2	3.333333	4
5821012587579	4469	1	0.011111	0.6885	1	1.05392	2	1.843162	2
5821012866543	4469	1	0.011111	0.6885	1	1.05392	2	1.843162	2
5826002266030	4469	1	0.011111	0.6885	1	1.05392	2	1.843162	2
5826010121938	4469	3	0.033333	1.3333	2	1.96633	2	3.333333	4
5826010124864	4469	2	0.022222	1.0387	2	1.55556	2	2.671712	3
5826010329930	4469	2	0.022222	1.0387	2	1.55556	2	2.671712	3
5831000611577	4469	1	0.011111	0.6885	1	1.05392	2	1.843162	2
5831000784969	4469	1	0.011111	0.6885	1	1.05392	2	1.843162	2

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5831004952163	4469	1	0.011111	0.6885	1	1.05392	2	1.843162	2
5831009993916	4469	2	0.022222	1.0387	2	1.55556	2	2.671712	3
5865013249103	4469	2	0.022222	1.0387	2	1.55556	2	2.671712	3
5865013252225	4469	2	0.022222	1.0387	2	1.55556	2	2.671712	3
5895000894522	4469	2	0.022222	1.0387	2	1.55556	2	2.671712	3
5895001602198	4469	3	0.033333	1.3333	2	1.96633	2	3.333333	4
5895011549125	4469	2	0.022222	1.0387	2	1.55556	2	2.671712	3
5985011515848	4469	1	0.011111	0.6885	1	1.05392	2	1.843162	2
5985012827892	4469	1	0.011111	0.6885	1	1.05392	2	1.843162	2
6605005012379	4469	1	0.011111	0.6885	1	1.05392	2	1.843162	2
6615009732218	4469	1	0.011111	0.6885	1	1.05392	2	1.843162	2
6625008954446	4469	2	0.022222	1.0387	2	1.55556	2	2.671712	3
6645001506526	4469	2	0.022222	1.0387	2	1.55556	2	2.671712	3
1270010940527	4479	2	0.022222	1.0387	2	1.55556	2	2.671712	3
1270011126862	4479	4	0.044444	1.5991	2	2.33006	3	3.908546	4
1680008699545	4479	1	0.011111	0.6885	1	1.05392	2	1.843162	2
5810000613386	4479	19	0.211111	4.6277	5	6.22072	7	9.660946	10
5810004490154	4479	2	0.022222	1.0387	2	1.55556	2	2.671712	3
5810010509968	4479	1	0.011111	0.6885	1	1.05392	2	1.843162	2
5810010842200	4479	4	0.044444	1.5991	2	2.33006	3	3.908546	4
5810012737820	4479	2	0.022222	1.0387	2	1.55556	2	2.671712	3
5821010031336	4479	2	0.022222	1.0387	2	1.55556	2	2.671712	3
5821010569616	4479	4	0.044444	1.5991	2	2.33006	3	3.908546	4
5821010621019	4479	8	0.088889	2.5219	3	3.55556	4	5.787868	6
5821010704695	4479	8	0.088889	2.5219	3	3.55556	4	5.787868	6
5821011136476	4479	7	0.077778	2.3053	3	3.27222	4	5.360353	6
5821011659342	4479	2	0.022222	1.0387	2	1.55556	2	2.671712	3
5821012137333	4479	2	0.022222	1.0387	2	1.55556	2	2.671712	3
5821012287058	4479	2	0.022222	1.0387	2	1.55556	2	2.671712	3
5821012866543	4479	1	0.011111	0.6885	1	1.05392	2	1.843162	2
5821013123525	4479	6	0.066667	2.0809	3	2.97607	3	4.909307	5
5826009731914	4479	2	0.022222	1.0387	2	1.55556	2	2.671712	3
5826009731916	4479	4	0.044444	1.5991	2	2.33006	3	3.908546	4
5826010121919	4479	5	0.055556	1.8466	2	2.66374	3	4.428539	5
5826010121938	4479	8	0.088889	2.5219	3	3.55556	4	5.787868	6
5826010124864	4479	4	0.044444	1.5991	2	2.33006	3	3.908546	4
5826010409798	4479	2	0.022222	1.0387	2	1.55556	2	2.671712	3
5826012371912	4479	1	0.011111	0.6885	1	1.05392	2	1.843162	2
5831000611577	4479	1	0.011111	0.6885	1	1.05392	2	1.843162	2
5831005235328	4479	1	0.011111	0.6885	1	1.05392	2	1.843162	2
5840010073959	4479	5	0.055556	1.8466	2	2.66374	3	4.428539	5
5841010891022	4479	1	0.011111	0.6885	1	1.05392	2	1.843162	2
5841010891064	4479	3	0.033333	1.3333	2	1.96633	2	3.333333	4
5841010918929	4479	8	0.088889	2.5219	3	3.55556	4	5.787868	6
5841011314516	4479	3	0.033333	1.3333	2	1.96633	2	3.333333	4
5841011423785	4479	1	0.011111	0.6885	1	1.05392	2	1.843162	2
5841011435778	4479	2	0.022222	1.0387	2	1.55556	2	2.671712	3
5841011435912	4479	7	0.077778	2.3053	3	3.27222	4	5.360353	6
5841012644422	4479	1	0.011111	0.6885	1	1.05392	2	1.843162	2

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5841012827093	4479	2	0.022222	1.0387	2	1.55556	2	2.671712	3
5895001602198	4479	21	0.233333	4.9791	5	6.65383	7	10.27059	11
5895008809688	4479	2	0.022222	1.0387	2	1.55556	2	2.671712	3
5895009992411	4479	9	0.1	2.7321	3	3.82843	4	6.196152	7
5895010485194	4479	2	0.022222	1.0387	2	1.55556	2	2.671712	3
5895011126380	4479	4	0.044444	1.5991	2	2.33006	3	3.908546	4
5985010890737	4479	1	0.011111	0.6885	1	1.05392	2	1.843162	2
5998000703123	4479	3	0.033333	1.3333	2	1.96633	2	3.333333	4
5998000703278	4479	4	0.044444	1.5991	2	2.33006	3	3.908546	4
6340010557374	4479	6	0.066667	2.0809	3	2.97607	3	4.909307	5
6605011081329	4479	2	0.022222	1.0387	2	1.55556	2	2.671712	3
6610009453125	4479	16	0.177778	4.0872	5	5.54901	6	8.705981	9
6610010750673	4479	3	0.033333	1.3333	2	1.96633	2	3.333333	4
6610010996186	4479	1	0.011111	0.6885	1	1.05392	2	1.843162	2
6610011326660	4479	13	0.144444	3.5261	4	4.84379	5	7.689442	8
6610011326661	4479	7	0.077778	2.3053	3	3.27222	4	5.360353	6
6610011440719	4479	8	0.088889	2.5219	3	3.55556	4	5.787868	6
6615005679423	4479	2	0.022222	1.0387	2	1.55556	2	2.671712	3
6615005759682	4479	2	0.022222	1.0387	2	1.55556	2	2.671712	3
6615008667670	4479	1	0.011111	0.6885	1	1.05392	2	1.843162	2
6615009363486	4479	1	0.011111	0.6885	1	1.05392	2	1.843162	2
6615009504212	4479	2	0.022222	1.0387	2	1.55556	2	2.671712	3
6615010181635	4479	12	0.133333	3.3333	4	4.59932	5	7.333333	8
6615013169054	4479	2	0.022222	1.0387	2	1.55556	2	2.671712	3
6625008954446	4479	2	0.022222	1.0387	2	1.55556	2	2.671712	3
6680010928262	4479	2	0.022222	1.0387	2	1.55556	2	2.671712	3
6695012013554	4479	2	0.022222	1.0387	2	1.55556	2	2.671712	3
6695013434006	4479	1	0.011111	0.6885	1	1.05392	2	1.843162	2
1270012400088	4484	2	0.022222	1.0387	2	1.55556	2	2.671712	3
1270013093077	4484	2	0.022222	1.0387	2	1.55556	2	2.671712	3
1680008699545	4484	4	0.044444	1.5991	2	2.33006	3	3.908546	4
5810000613386	4484	8	0.088889	2.5219	3	3.55556	4	5.787868	6
5810010508116	4484	2	0.022222	1.0387	2	1.55556	2	2.671712	3
5810012737820	4484	2	0.022222	1.0387	2	1.55556	2	2.671712	3
5821011038155	4484	2	0.022222	1.0387	2	1.55556	2	2.671712	3
5821011136476	4484	22	0.244444	5.1525	6	6.86661	7	10.56848	11
5821011376301	4484	2	0.022222	1.0387	2	1.55556	2	2.671712	3
5821011659342	4484	4	0.044444	1.5991	2	2.33006	3	3.908546	4
5821012137333	4484	4	0.044444	1.5991	2	2.33006	3	3.908546	4
5821012587579	4484	8	0.088889	2.5219	3	3.55556	4	5.787868	6
5826009731914	4484	4	0.044444	1.5991	2	2.33006	3	3.908546	4
5826010121919	4484	2	0.022222	1.0387	2	1.55556	2	2.671712	3
5826010121938	4484	2	0.022222	1.0387	2	1.55556	2	2.671712	3
5826010124864	4484	2	0.022222	1.0387	2	1.55556	2	2.671712	3
5840010073959	4484	1	0.011111	0.6885	1	1.05392	2	1.843162	2
5841010891022	4484	4	0.044444	1.5991	2	2.33006	3	3.908546	4
5841010891064	4484	6	0.066667	2.0809	3	2.97607	3	4.909307	5
5841010918929	4484	5	0.055556	1.8466	2	2.66374	3	4.428539	5
5841011314516	4484	2	0.022222	1.0387	2	1.55556	2	2.671712	3

Appendix B: Aggregate Base-Level Inventory Requirement

5841011423767	4484	2	0.022222	1.0387	2	1.55556	2	2.671712	3
5841011435358	4484	1	0.011111	0.6885	1	1.05392	2	1.843162	2
5841011435778	4484	7	0.077778	2.3053	3	3.27222	4	5.360353	6
5841011435912	4484	14	0.155556	3.7158	4	5.08322	6	8.036296	9
5841012029769	4484	2	0.022222	1.0387	2	1.55556	2	2.671712	3
5841012644422	4484	1	0.011111	0.6885	1	1.05392	2	1.843162	2
5895009992411	4484	2	0.022222	1.0387	2	1.55556	2	2.671712	3
5895013455140	4484	2	0.022222	1.0387	2	1.55556	2	2.671712	3
5998000703123	4484	4	0.044444	1.5991	2	2.33006	3	3.908546	4
5998000703278	4484	2	0.022222	1.0387	2	1.55556	2	2.671712	3
6605010182181	4484	1	0.011111	0.6885	1	1.05392	2	1.843162	2
6610009453125	4484	17	0.188889	4.2694	5	5.77619	6	9.030317	10
6610011326660	4484	6	0.066667	2.0809	3	2.97607	3	4.909307	5
6610011326661	4484	12	0.133333	3.3333	4	4.59932	5	7.333333	8
6610011440719	4484	8	0.088889	2.5219	3	3.55556	4	5.787868	6
6610012262152	4484	3	0.033333	1.3333	2	1.96633	2	3.333333	4
6615008094515	4484	1	0.011111	0.6885	1	1.05392	2	1.843162	2
6615009072838	4484	2	0.022222	1.0387	2	1.55556	2	2.671712	3
6615009078535	4484	8	0.088889	2.5219	3	3.55556	4	5.787868	6
6615009363486	4484	2	0.022222	1.0387	2	1.55556	2	2.671712	3
6615010177727	4484	4	0.044444	1.5991	2	2.33006	3	3.908546	4
6615010181635	4484	12	0.133333	3.3333	4	4.59932	5	7.333333	8
6615010471190	4484	2	0.022222	1.0387	2	1.55556	2	2.671712	3
6625004713174	4484	4	0.044444	1.5991	2	2.33006	3	3.908546	4
6625008954446	4484	3	0.033333	1.3333	2	1.96633	2	3.333333	4
6625011539893	4484	1	0.011111	0.6885	1	1.05392	2	1.843162	2
1260012511150	4488	2	0.022222	1.0387	2	1.55556	2	2.671712	3
1270010940527	4488	2	0.022222	1.0387	2	1.55556	2	2.671712	3
1270012330011	4488	2	0.022222	1.0387	2	1.55556	2	2.671712	3
1270012383662	4488	8	0.088889	2.5219	3	3.55556	4	5.787868	6
1270012566538	4488	3	0.033333	1.3333	2	1.96633	2	3.333333	4
1270013333608	4488	2	0.022222	1.0387	2	1.55556	2	2.671712	3
1270013659471	4488	1	0.011111	0.6885	1	1.05392	2	1.843162	2
1290013223711	4488	1	0.011111	0.6885	1	1.05392	2	1.843162	2
5810004490154	4488	2	0.022222	1.0387	2	1.55556	2	2.671712	3
5810010269624	4488	10	0.111111	2.9369	3	4.09254	5	6.588337	7
5810010508115	4488	19	0.211111	4.6277	5	6.22072	7	9.660946	10
5810012737820	4488	6	0.066667	2.0809	3	2.97607	3	4.909307	5
5821010569617	4488	2	0.022222	1.0387	2	1.55556	2	2.671712	3
5821010621019	4488	7	0.077778	2.3053	3	3.27222	4	5.360353	6
5821010704695	4488	4	0.044444	1.5991	2	2.33006	3	3.908546	4
5821010979133	4488	6	0.066667	2.0809	3	2.97607	3	4.909307	5
5821011015333	4488	1	0.011111	0.6885	1	1.05392	2	1.843162	2
5821012287058	4488	6	0.066667	2.0809	3	2.97607	3	4.909307	5
5821012587579	4488	8	0.088889	2.5219	3	3.55556	4	5.787868	6
5821013123525	4488	1	0.011111	0.6885	1	1.05392	2	1.843162	2
5826002411011	4488	12	0.133333	3.3333	4	4.59932	5	7.333333	8
5826005356629	4488	2	0.022222	1.0387	2	1.55556	2	2.671712	3
5826006259201	4488	4	0.044444	1.5991	2	2.33006	3	3.908546	4

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5826010121919	4488	1	0.011111	0.6885	1	1.05392	2	1.843162	2
5826010121938	4488	10	0.111111	2.9369	3	4.09254	5	6.588337	7
5826010409798	4488	4	0.044444	1.5991	2	2.33006	3	3.908546	4
5826012368622	4488	3	0.033333	1.3333	2	1.96633	2	3.333333	4
5826012371912	4488	2	0.022222	1.0387	2	1.55556	2	2.671712	3
5831008093179	4488	2	0.022222	1.0387	2	1.55556	2	2.671712	3
5840010073959	4488	2	0.022222	1.0387	2	1.55556	2	2.671712	3
5841008047159	4488	4	0.044444	1.5991	2	2.33006	3	3.908546	4
5841010537872	4488	2	0.022222	1.0387	2	1.55556	2	2.671712	3
5841010781344	4488	2	0.022222	1.0387	2	1.55556	2	2.671712	3
5841010891064	4488	2	0.022222	1.0387	2	1.55556	2	2.671712	3
5841010918929	4488	2	0.022222	1.0387	2	1.55556	2	2.671712	3
5841011423785	4488	3	0.033333	1.3333	2	1.96633	2	3.333333	4
5841011435358	4488	1	0.011111	0.6885	1	1.05392	2	1.843162	2
5841011435778	4488	4	0.044444	1.5991	2	2.33006	3	3.908546	4
5841011435910	4488	2	0.022222	1.0387	2	1.55556	2	2.671712	3
5841011435912	4488	45	0.5	8.873	9	11.3246	12	16.61895	17
5841012029769	4488	3	0.033333	1.3333	2	1.96633	2	3.333333	4
5841012644422	4488	8	0.088889	2.5219	3	3.55556	4	5.787868	6
5841012827090	4488	4	0.044444	1.5991	2	2.33006	3	3.908546	4
5841012827093	4488	8	0.088889	2.5219	3	3.55556	4	5.787868	6
5865011106043	4488	4	0.044444	1.5991	2	2.33006	3	3.908546	4
5895001491319	4488	3	0.033333	1.3333	2	1.96633	2	3.333333	4
5895001602198	4488	13	0.144444	3.5261	4	4.84379	5	7.689442	8
5895005051016	4488	2	0.022222	1.0387	2	1.55556	2	2.671712	3
5895005071381	4488	4	0.044444	1.5991	2	2.33006	3	3.908546	4
5895009992411	4488	6	0.066667	2.0809	3	2.97607	3	4.909307	5
5895010537839	4488	2	0.022222	1.0387	2	1.55556	2	2.671712	3
5895011074586	4488	2	0.022222	1.0387	2	1.55556	2	2.671712	3
5895011126380	4488	10	0.111111	2.9369	3	4.09254	5	6.588337	7
5895011435443	4488	2	0.022222	1.0387	2	1.55556	2	2.671712	3
5895012422033	4488	7	0.077778	2.3053	3	3.27222	4	5.360353	6
5895012489012	4488	3	0.033333	1.3333	2	1.96633	2	3.333333	4
5895013102157	4488	2	0.022222	1.0387	2	1.55556	2	2.671712	3
5945011709363	4488	3	0.033333	1.3333	2	1.96633	2	3.333333	4
5985011540003	4488	1	0.011111	0.6885	1	1.05392	2	1.843162	2
5985012122950	4488	1	0.011111	0.6885	1	1.05392	2	1.843162	2
5985012575597	4488	4	0.044444	1.5991	2	2.33006	3	3.908546	4
5998011896233	4488	8	0.088889	2.5219	3	3.55556	4	5.787868	6
5998013227746	4488	3	0.033333	1.3333	2	1.96633	2	3.333333	4
5999010803978	4488	3	0.033333	1.3333	2	1.96633	2	3.333333	4
5999013211549	4488	1	0.011111	0.6885	1	1.05392	2	1.843162	2
6605005012379	4488	2	0.022222	1.0387	2	1.55556	2	2.671712	3
6610010397817	4488	2	0.022222	1.0387	2	1.55556	2	2.671712	3
6610010996186	4488	2	0.022222	1.0387	2	1.55556	2	2.671712	3
6615005759682	4488	2	0.022222	1.0387	2	1.55556	2	2.671712	3
6615009732218	4488	6	0.066667	2.0809	3	2.97607	3	4.909307	5
6615010181635	4488	1	0.011111	0.6885	1	1.05392	2	1.843162	2
6615010358996	4488	2	0.022222	1.0387	2	1.55556	2	2.671712	3
6615013169054	4488	7	0.077778	2.3053	3	3.27222	4	5.360353	6

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6615013619746	4488	7	0.077778	2.3053	3	3.27222	4	5.360353	6
6620005154541	4488	8	0.088889	2.5219	3	3.55556	4	5.787868	6
6625004713174	4488	5	0.055556	1.8466	2	2.66374	3	4.428539	5
6625008954446	4488	6	0.066667	2.0809	3	2.97607	3	4.909307	5
6625011938861	4488	5	0.055556	1.8466	2	2.66374	3	4.428539	5
6645001506526	4488	4	0.044444	1.5991	2	2.33006	3	3.908546	4
6645009508599	4488	2	0.022222	1.0387	2	1.55556	2	2.671712	3
6680010928262	4488	2	0.022222	1.0387	2	1.55556	2	2.671712	3
6695013434006	4488	8	0.088889	2.5219	3	3.55556	4	5.787868	6
7025011963702	4488	4	0.044444	1.5991	2	2.33006	3	3.908546	4
4920000782418	4497	2	0.022222	1.0387	2	1.55556	2	2.671712	3
4920001344902	4497	4	0.044444	1.5991	2	2.33006	3	3.908546	4
4920002497149	4497	3	0.033333	1.3333	2	1.96633	2	3.333333	4
4920002497153	4497	2	0.022222	1.0387	2	1.55556	2	2.671712	3
4920002497154	4497	1	0.011111	0.6885	1	1.05392	2	1.843162	2
4920004003763	4497	1	0.011111	0.6885	1	1.05392	2	1.843162	2
4920004868836	4497	3	0.033333	1.3333	2	1.96633	2	3.333333	4
4920005639126	4497	1	0.011111	0.6885	1	1.05392	2	1.843162	2
4920010347681	4497	10	0.111111	2.9369	3	4.09254	5	6.588337	7
4920011185129	4497	3	0.033333	1.3333	2	1.96633	2	3.333333	4
4920011850756	4497	2	0.022222	1.0387	2	1.55556	2	2.671712	3
4920011902868	4497	1	0.011111	0.6885	1	1.05392	2	1.843162	2
4920012007194	4497	5	0.055556	1.8466	2	2.66374	3	4.428539	5
4920012034183	4497	6	0.066667	2.0809	3	2.97607	3	4.909307	5
4920012521038	4497	2	0.022222	1.0387	2	1.55556	2	2.671712	3
4920012521094	4497	4	0.044444	1.5991	2	2.33006	3	3.908546	4
4920012802786	4497	2	0.022222	1.0387	2	1.55556	2	2.671712	3
4920012810250	4497	2	0.022222	1.0387	2	1.55556	2	2.671712	3
4920012917299	4497	1	0.011111	0.6885	1	1.05392	2	1.843162	2
4920013112811	4497	1	0.011111	0.6885	1	1.05392	2	1.843162	2
4920013126007	4497	1	0.011111	0.6885	1	1.05392	2	1.843162	2
5810000613386	4497	2	0.022222	1.0387	2	1.55556	2	2.671712	3
5810012737820	4497	2	0.022222	1.0387	2	1.55556	2	2.671712	3
5821010621019	4497	2	0.022222	1.0387	2	1.55556	2	2.671712	3
5821012587579	4497	2	0.022222	1.0387	2	1.55556	2	2.671712	3
5821012866543	4497	2	0.022222	1.0387	2	1.55556	2	2.671712	3
5841010918929	4497	2	0.022222	1.0387	2	1.55556	2	2.671712	3
5895011287267	4497	2	0.022222	1.0387	2	1.55556	2	2.671712	3
5985010890737	4497	9	0.1	2.7321	3	3.82843	4	6.196152	7
5998011908294	4497	2	0.022222	1.0387	2	1.55556	2	2.671712	3
5998011908295	4497	1	0.011111	0.6885	1	1.05392	2	1.843162	2
5998011908296	4497	6	0.066667	2.0809	3	2.97607	3	4.909307	5
5998011908297	4497	2	0.022222	1.0387	2	1.55556	2	2.671712	3
5998011909306	4497	3	0.033333	1.3333	2	1.96633	2	3.333333	4
5998011909307	4497	7	0.077778	2.3053	3	3.27222	4	5.360353	6
5998011917006	4497	2	0.022222	1.0387	2	1.55556	2	2.671712	3
5998011917007	4497	2	0.022222	1.0387	2	1.55556	2	2.671712	3
5998012898541	4497	5	0.055556	1.8466	2	2.66374	3	4.428539	5
6110011976781	4497	6	0.066667	2.0809	3	2.97607	3	4.909307	5

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6130012562076	4497	1	0.011111	0.6885	1	1.05392	2	1.843162	2
6610000180682	4497	16	0.177778	4.0872	5	5.54901	6	8.705981	9
6610000180683	4497	5	0.055556	1.8466	2	2.66374	3	4.428539	5
6610001691601	4497	13	0.144444	3.5261	4	4.84379	5	7.689442	8
6610003715953	4497	2	0.022222	1.0387	2	1.55556	2	2.671712	3
6610005061745	4497	14	0.155556	3.7158	4	5.08322	6	8.036296	9
6610009453125	4497	2	0.022222	1.0387	2	1.55556	2	2.671712	3
6610011326660	4497	4	0.044444	1.5991	2	2.33006	3	3.908546	4
6610011326661	4497	2	0.022222	1.0387	2	1.55556	2	2.671712	3
6610011440719	4497	2	0.022222	1.0387	2	1.55556	2	2.671712	3
6610012262152	4497	2	0.022222	1.0387	2	1.55556	2	2.671712	3
6615001633181	4497	6	0.066667	2.0809	3	2.97607	3	4.909307	5
6615004117976	4497	3	0.033333	1.3333	2	1.96633	2	3.333333	4
6615005370580	4497	4	0.044444	1.5991	2	2.33006	3	3.908546	4
6615010453887	4497	8	0.088889	2.5219	3	3.55556	4	5.787868	6
6615010453888	4497	6	0.066667	2.0809	3	2.97607	3	4.909307	5
6615010453889	4497	11	0.122222	3.1371	4	4.34917	5	6.966785	7
6615010471190	4497	28	0.311111	6.1662	7	8.09999	9	12.27626	13
6615011877821	4497	1	0.011111	0.6885	1	1.05392	2	1.843162	2
6615012477291	4497	3	0.033333	1.3333	2	1.96633	2	3.333333	4
6615012477292	4497	2	0.022222	1.0387	2	1.55556	2	2.671712	3
6615012477293	4497	2	0.022222	1.0387	2	1.55556	2	2.671712	3
6615012620502	4497	2	0.022222	1.0387	2	1.55556	2	2.671712	3
6620013055344	4497	2	0.022222	1.0387	2	1.55556	2	2.671712	3
5826006269874	4515	2	0.022222	1.0387	2	1.55556	2	2.671712	3
5826006786632	4515	2	0.022222	1.0387	2	1.55556	2	2.671712	3
5895010620002	4515	2	0.022222	1.0387	2	1.55556	2	2.671712	3
1280001596180	4528	16	0.177778	4.0872	5	5.54901	6	8.705981	9
1280001596185	4528	11	0.122222	3.1371	4	4.34917	5	6.966785	7
1280001866244	4528	2	0.022222	1.0387	2	1.55556	2	2.671712	3
1280001866298	4528	2	0.022222	1.0387	2	1.55556	2	2.671712	3
1280002501236	4528	5	0.055556	1.8466	2	2.66374	3	4.428539	5
1280010730473	4528	2	0.022222	1.0387	2	1.55556	2	2.671712	3
1280011042962	4528	4	0.044444	1.5991	2	2.33006	3	3.908546	4
1280011207216	4528	2	0.022222	1.0387	2	1.55556	2	2.671712	3
1280011226908	4528	5	0.055556	1.8466	2	2.66374	3	4.428539	5
1280011509022	4528	19	0.211111	4.6277	5	6.22072	7	9.660946	10
1280011512272	4528	3	0.033333	1.3333	2	1.96633	2	3.333333	4
1280011513174	4528	1	0.011111	0.6885	1	1.05392	2	1.843162	2
1280011730534	4528	3	0.033333	1.3333	2	1.96633	2	3.333333	4
1280011882610	4528	2	0.022222	1.0387	2	1.55556	2	2.671712	3
1280012261145	4528	2	0.022222	1.0387	2	1.55556	2	2.671712	3
1280012270719	4528	2	0.022222	1.0387	2	1.55556	2	2.671712	3
1280012287260	4528	6	0.066667	2.0809	3	2.97607	3	4.909307	5
1280012287261	4528	4	0.044444	1.5991	2	2.33006	3	3.908546	4
1280012302685	4528	8	0.088889	2.5219	3	3.55556	4	5.787868	6
5810012737820	4528	2	0.022222	1.0387	2	1.55556	2	2.671712	3
5815010550357	4528	2	0.022222	1.0387	2	1.55556	2	2.671712	3

Appendix B: Aggregate Base-Level Inventory Requirement

5815010564186	4528	1	0.011111	0.6885	1	1.05392	2	1.843162	2
5815011251526	4528	2	0.022222	1.0387	2	1.55556	2	2.671712	3
5821001490676	4528	2	0.022222	1.0387	2	1.55556	2	2.671712	3
5821001866309	4528	21	0.233333	4.9791	5	6.65383	7	10.27059	11
5821010440457	4528	1	0.011111	0.6885	1	1.05392	2	1.843162	2
5821010498535	4528	2	0.022222	1.0387	2	1.55556	2	2.671712	3
5821010621019	4528	2	0.022222	1.0387	2	1.55556	2	2.671712	3
5821010649794	4528	4	0.044444	1.5991	2	2.33006	3	3.908546	4
5821010651677	4528	2	0.022222	1.0387	2	1.55556	2	2.671712	3
5821011046155	4528	4	0.044444	1.5991	2	2.33006	3	3.908546	4
5821012287058	4528	10	0.111111	2.9369	3	4.09254	5	6.588337	7
5826005051020	4528	2	0.022222	1.0387	2	1.55556	2	2.671712	3
5826007210168	4528	2	0.022222	1.0387	2	1.55556	2	2.671712	3
5826010784935	4528	3	0.033333	1.3333	2	1.96633	2	3.333333	4
5826013109882	4528	10	0.111111	2.9369	3	4.09254	5	6.588337	7
5831008093179	4528	2	0.022222	1.0387	2	1.55556	2	2.671712	3
5831008093180	4528	9	0.1	2.7321	3	3.82843	4	6.196152	7
5836012872061	4528	2	0.022222	1.0387	2	1.55556	2	2.671712	3
5841011274935	4528	1	0.011111	0.6885	1	1.05392	2	1.843162	2
5865000999351	4528	5	0.055556	1.8466	2	2.66374	3	4.428539	5
5865000999352	4528	2	0.022222	1.0387	2	1.55556	2	2.671712	3
5865007836261	4528	1	0.011111	0.6885	1	1.05392	2	1.843162	2
5865010569896	4528	4	0.044444	1.5991	2	2.33006	3	3.908546	4
5865010876670	4528	30	0.333333	6.4956	7	8.49731	9	12.82017	13
5865010887202	4528	4	0.044444	1.5991	2	2.33006	3	3.908546	4
5865011487930	4528	12	0.133333	3.3333	4	4.59932	5	7.333333	8
5865011521792	4528	21	0.233333	4.9791	5	6.65383	7	10.27059	11
5865012110140	4528	4	0.044444	1.5991	2	2.33006	3	3.908546	4
5865012348470	4528	22	0.244444	5.1525	6	6.86661	7	10.56848	11
5865012348471	4528	24	0.266667	5.4951	6	7.28547	8	11.15195	12
5865012348472	4528	49	0.544444	9.4859	10	12.0441	13	17.5688	18
5865012365734	4528	55	0.611111	10.393	11	13.1032	14	18.95634	19
5865012556889	4528	40	0.444444	8.0959	9	10.4073	11	15.3989	16
5865013077305	4528	41	0.455556	8.2524	9	10.5925	11	15.64609	16
5865013087671	4528	1	0.011111	0.6885	1	1.05392	2	1.843162	2
5865013115110	4528	12	0.133333	3.3333	4	4.59932	5	7.333333	8
5865013249101	4528	6	0.066667	2.0809	3	2.97607	3	4.909307	5
5865013252225	4528	12	0.133333	3.3333	4	4.59932	5	7.333333	8
5865013369220	4528	2	0.022222	1.0387	2	1.55556	2	2.671712	3
5895000395434	4528	8	0.088889	2.5219	3	3.55556	4	5.787868	6
5895000395441	4528	2	0.022222	1.0387	2	1.55556	2	2.671712	3
5895000395456	4528	2	0.022222	1.0387	2	1.55556	2	2.671712	3
5895000395461	4528	4	0.044444	1.5991	2	2.33006	3	3.908546	4
5895000395486	4528	4	0.044444	1.5991	2	2.33006	3	3.908546	4
5895000894522	4528	7	0.077778	2.3053	3	3.27222	4	5.360353	6
5895003037577	4528	4	0.044444	1.5991	2	2.33006	3	3.908546	4
5895009049816	4528	3	0.033333	1.3333	2	1.96633	2	3.333333	4
5895010720788	4528	8	0.088889	2.5219	3	3.55556	4	5.787868	6
5895010981156	4528	6	0.066667	2.0809	3	2.97607	3	4.909307	5
5895011184566	4528	2	0.022222	1.0387	2	1.55556	2	2.671712	3

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5895011327476	4528	2	0.022222	1.0387	2	1.55556	2	2.671712	3
5895011525214	4528	1	0.011111	0.6885	1	1.05392	2	1.843162	2
5895011549125	4528	37	0.411111	7.623	8	9.846	10	14.64676	15
5895012108603	4528	1	0.011111	0.6885	1	1.05392	2	1.843162	2
5895012171470	4528	4	0.044444	1.5991	2	2.33006	3	3.908546	4
5895012199387	4528	12	0.133333	3.3333	4	4.59932	5	7.333333	8
5895012242177	4528	32	0.355556	6.8215	7	8.88889	9	13.35351	14
5895012278845	4528	8	0.088889	2.5219	3	3.55556	4	5.787868	6
5895012919918	4528	10	0.111111	2.9369	3	4.09254	5	6.588337	7
5985000987346	4528	2	0.022222	1.0387	2	1.55556	2	2.671712	3
5985002244175	4528	2	0.022222	1.0387	2	1.55556	2	2.671712	3
5985004319944	4528	2	0.022222	1.0387	2	1.55556	2	2.671712	3
5985005205875	4528	4	0.044444	1.5991	2	2.33006	3	3.908546	4
5985012902072	4528	14	0.155556	3.7158	4	5.08322	6	8.036296	9
6125006358795	4528	4	0.044444	1.5991	2	2.33006	3	3.908546	4
6130000410372	4528	3	0.033333	1.3333	2	1.96633	2	3.333333	4
6130007584485	4528	4	0.044444	1.5991	2	2.33006	3	3.908546	4
6130010573396	4528	2	0.022222	1.0387	2	1.55556	2	2.671712	3
6210007665189	4528	2	0.022222	1.0387	2	1.55556	2	2.671712	3
6605011375957	4528	2	0.022222	1.0387	2	1.55556	2	2.671712	3
6615009224464	4528	4	0.044444	1.5991	2	2.33006	3	3.908546	4
6615009224465	4528	2	0.022222	1.0387	2	1.55556	2	2.671712	3
6615009224466	4528	2	0.022222	1.0387	2	1.55556	2	2.671712	3
6615009224467	4528	9	0.1	2.7321	3	3.82843	4	6.196152	7
6615011072569	4528	2	0.022222	1.0387	2	1.55556	2	2.671712	3
6615011955288	4528	2	0.022222	1.0387	2	1.55556	2	2.671712	3
6615012253746	4528	11	0.122222	3.1371	4	4.34917	5	6.966785	7
6615012258215	4528	8	0.088889	2.5219	3	3.55556	4	5.787868	6
6625004713174	4528	2	0.022222	1.0387	2	1.55556	2	2.671712	3
6645001506526	4528	8	0.088889	2.5219	3	3.55556	4	5.787868	6
6645008805927	4528	2	0.022222	1.0387	2	1.55556	2	2.671712	3
6645009508599	4528	6	0.066667	2.0809	3	2.97607	3	4.909307	5
1280011226908	4600	2	0.022222	1.0387	2	1.55556	2	2.671712	3
5810000613386	4600	1	0.011111	0.6885	1	1.05392	2	1.843162	2
5821011046155	4600	1	0.011111	0.6885	1	1.05392	2	1.843162	2
5821012587579	4600	2	0.022222	1.0387	2	1.55556	2	2.671712	3
5826001345967	4600	2	0.022222	1.0387	2	1.55556	2	2.671712	3
5826001345971	4600	12	0.133333	3.3333	4	4.59932	5	7.333333	8
5826001345973	4600	4	0.044444	1.5991	2	2.33006	3	3.908546	4
5826001345976	4600	2	0.022222	1.0387	2	1.55556	2	2.671712	3
5826001345977	4600	33	0.366667	6.9833	7	9.08269	10	13.61654	14
5826001345979	4600	5	0.055556	1.8466	2	2.66374	3	4.428539	5
5826001345984	4600	6	0.066667	2.0809	3	2.97607	3	4.909307	5
5826002755781	4600	2	0.022222	1.0387	2	1.55556	2	2.671712	3
5826005053094	4600	2	0.022222	1.0387	2	1.55556	2	2.671712	3
5826005053097	4600	4	0.044444	1.5991	2	2.33006	3	3.908546	4
5826009902331	4600	2	0.022222	1.0387	2	1.55556	2	2.671712	3
5826010121938	4600	6	0.066667	2.0809	3	2.97607	3	4.909307	5
5826010124864	4600	2	0.022222	1.0387	2	1.55556	2	2.671712	3

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5831005195882	4600	2	0.022222	1.0387	2	1.55556	2	2.671712	3
5841001345975	4600	2	0.022222	1.0387	2	1.55556	2	2.671712	3
5841010568647	4600	6	0.066667	2.0809	3	2.97607	3	4.909307	5
5841010693756	4600	2	0.022222	1.0387	2	1.55556	2	2.671712	3
5841010781344	4600	4	0.044444	1.5991	2	2.33006	3	3.908546	4
5841012827090	4600	2	0.022222	1.0387	2	1.55556	2	2.671712	3
5841012827093	4600	2	0.022222	1.0387	2	1.55556	2	2.671712	3
5865011521792	4600	2	0.022222	1.0387	2	1.55556	2	2.671712	3
5865013077305	4600	2	0.022222	1.0387	2	1.55556	2	2.671712	3
5985011041424	4600	4	0.044444	1.5991	2	2.33006	3	3.908546	4
5985011515848	4600	6	0.066667	2.0809	3	2.97607	3	4.909307	5
5990007178111	4600	2	0.022222	1.0387	2	1.55556	2	2.671712	3
6605005012379	4600	2	0.022222	1.0387	2	1.55556	2	2.671712	3
6605006202801	4600	2	0.022222	1.0387	2	1.55556	2	2.671712	3
6605008985597	4600	2	0.022222	1.0387	2	1.55556	2	2.671712	3
6605011375957	4600	2	0.022222	1.0387	2	1.55556	2	2.671712	3
6610008792788	4600	4	0.044444	1.5991	2	2.33006	3	3.908546	4
6615006731261	4600	2	0.022222	1.0387	2	1.55556	2	2.671712	3
6615009732218	4600	12	0.133333	3.3333	4	4.59932	5	7.333333	8
6625004713174	4600	4	0.044444	1.5991	2	2.33006	3	3.908546	4
6625008954446	4600	3	0.033333	1.3333	2	1.96633	2	3.333333	4
6645001506526	4600	4	0.044444	1.5991	2	2.33006	3	3.908546	4
6645009508599	4600	2	0.022222	1.0387	2	1.55556	2	2.671712	3
1270011126862	4608	2	0.022222	1.0387	2	1.55556	2	2.671712	3
1280001596180	4608	12	0.133333	3.3333	4	4.59932	5	7.333333	8
1280001596185	4608	41	0.455556	8.2524	9	10.5925	11	15.64609	16
1280001866244	4608	8	0.088889	2.5219	3	3.55556	4	5.787868	6
1280001866298	4608	10	0.111111	2.9369	3	4.09254	5	6.588337	7
1280002501236	4608	20	0.222222	4.8042	5	6.43859	7	9.968189	10
1280009841063	4608	6	0.066667	2.0809	3	2.97607	3	4.909307	5
1280010730473	4608	4	0.044444	1.5991	2	2.33006	3	3.908546	4
1280011042962	4608	2	0.022222	1.0387	2	1.55556	2	2.671712	3
1280011063368	4608	2	0.022222	1.0387	2	1.55556	2	2.671712	3
1280011106016	4608	1	0.011111	0.6885	1	1.05392	2	1.843162	2
1280011163832	4608	6	0.066667	2.0809	3	2.97607	3	4.909307	5
1280011207216	4608	9	0.1	2.7321	3	3.82843	4	6.196152	7
1280011226908	4608	25	0.277778	5.6645	6	7.49182	8	11.43803	12
1280011509022	4608	27	0.3	6	6	7.89898	8	12	12
1280011512272	4608	16	0.177778	4.0872	5	5.54901	6	8.705981	9
1280011513174	4608	4	0.044444	1.5991	2	2.33006	3	3.908546	4
1280011730534	4608	11	0.122222	3.1371	4	4.34917	5	6.966785	7
1280011826322	4608	10	0.111111	2.9369	3	4.09254	5	6.588337	7
1280011882610	4608	12	0.133333	3.3333	4	4.59932	5	7.333333	8
1280012261145	4608	1	0.011111	0.6885	1	1.05392	2	1.843162	2
1280012270719	4608	13	0.144444	3.5261	4	4.84379	5	7.689442	8
1280012287260	4608	9	0.1	2.7321	3	3.82843	4	6.196152	7
1280012287261	4608	4	0.044444	1.5991	2	2.33006	3	3.908546	4
1280012287365	4608	1	0.011111	0.6885	1	1.05392	2	1.843162	2
1280012288051	4608	8	0.088889	2.5219	3	3.55556	4	5.787868	6

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1280012302684	4608	2	0.022222	1.0387	2	1.55556	2	2.671712	3
1280012302685	4608	18	0.2	4.4495	5	6	6	9.348469	10
4810013353160	4608	2	0.022222	1.0387	2	1.55556	2	2.671712	3
5810010508115	4608	5	0.055556	1.8466	2	2.66374	3	4.428539	5
5810010842200	4608	1	0.011111	0.6885	1	1.05392	2	1.843162	2
5810012737820	4608	5	0.055556	1.8466	2	2.66374	3	4.428539	5
5815011251526	4608	3	0.033333	1.3333	2	1.96633	2	3.333333	4
5821001866309	4608	44	0.488889	8.7186	9	11.1428	12	16.37801	17
5821010440457	4608	2	0.022222	1.0387	2	1.55556	2	2.671712	3
5821010498535	4608	16	0.177778	4.0872	5	5.54901	6	8.705981	9
5821010569616	4608	3	0.033333	1.3333	2	1.96633	2	3.333333	4
5821010651677	4608	9	0.1	2.7321	3	3.82843	4	6.196152	7
5821011046155	4608	6	0.066667	2.0809	3	2.97607	3	4.909307	5
5821011416133	4608	1	0.011111	0.6885	1	1.05392	2	1.843162	2
5821012287058	4608	15	0.166667	3.9027	4	5.31815	6	8.374871	9
5821012413149	4608	2	0.022222	1.0387	2	1.55556	2	2.671712	3
5821012587579	4608	1	0.011111	0.6885	1	1.05392	2	1.843162	2
5821012587580	4608	1	0.011111	0.6885	1	1.05392	2	1.843162	2
5821012866543	4608	2	0.022222	1.0387	2	1.55556	2	2.671712	3
5821013123525	4608	1	0.011111	0.6885	1	1.05392	2	1.843162	2
5826005050992	4608	19	0.211111	4.6277	5	6.22072	7	9.660946	10
5826005051020	4608	1	0.011111	0.6885	1	1.05392	2	1.843162	2
5826005051675	4608	4	0.044444	1.5991	2	2.33006	3	3.908546	4
5826005053097	4608	2	0.022222	1.0387	2	1.55556	2	2.671712	3
5826007210168	4608	3	0.033333	1.3333	2	1.96633	2	3.333333	4
5826010121938	4608	12	0.133333	3.3333	4	4.59932	5	7.333333	8
5826010124864	4608	4	0.044444	1.5991	2	2.33006	3	3.908546	4
5826010784935	4608	5	0.055556	1.8466	2	2.66374	3	4.428539	5
5826013109882	4608	6	0.066667	2.0809	3	2.97607	3	4.909307	5
5831004952163	4608	4	0.044444	1.5991	2	2.33006	3	3.908546	4
5831008093180	4608	34	0.377778	7.1443	8	9.27525	10	13.87728	14
5831009993916	4608	7	0.077778	2.3053	3	3.27222	4	5.360353	6
5836010512886	4608	14	0.155556	3.7158	4	5.08322	6	8.036296	9
5836012872061	4608	2	0.022222	1.0387	2	1.55556	2	2.671712	3
5841010693756	4608	2	0.022222	1.0387	2	1.55556	2	2.671712	3
5841010781344	4608	4	0.044444	1.5991	2	2.33006	3	3.908546	4
5841011274935	4608	5	0.055556	1.8466	2	2.66374	3	4.428539	5
5865000758871	4608	2	0.022222	1.0387	2	1.55556	2	2.671712	3
5865000999351	4608	7	0.077778	2.3053	3	3.27222	4	5.360353	6
5865000999352	4608	3	0.033333	1.3333	2	1.96633	2	3.333333	4
5865007836261	4608	3	0.033333	1.3333	2	1.96633	2	3.333333	4
5865009523204	4608	8	0.088889	2.5219	3	3.55556	4	5.787868	6
5865010042118	4608	3	0.033333	1.3333	2	1.96633	2	3.333333	4
5865010211647	4608	1	0.011111	0.6885	1	1.05392	2	1.843162	2
5865010569896	4608	12	0.133333	3.3333	4	4.59932	5	7.333333	8
5865010876670	4608	40	0.444444	8.0959	9	10.4073	11	15.3989	16
5865010887202	4608	16	0.177778	4.0872	5	5.54901	6	8.705981	9
5865011253823	4608	9	0.1	2.7321	3	3.82843	4	6.196152	7
5865011487930	4608	44	0.488889	8.7186	9	11.1428	12	16.37801	17
5865011521792	4608	52	0.577778	9.9411	10	12.5765	13	18.26777	19

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5865012110140	4608	20	0.222222	4.8042	5	6.43859	7	9.968189	10
5865012348470	4608	62	0.688889	11.435	12	14.3126	15	20.52707	21
5865012348471	4608	32	0.355556	6.8215	7	8.88889	9	13.35351	14
5865012348472	4608	82	0.911111	14.339	15	17.6486	18	24.7955	25
5865012365734	4608	51	0.566667	9.7898	10	12.3997	13	18.03598	19
5865012556889	4608	44	0.488889	8.7186	9	11.1428	12	16.37801	17
5865013077305	4608	79	0.877778	13.909	14	17.1577	18	24.17258	25
5865013115110	4608	30	0.333333	6.4956	7	8.49731	9	12.82017	13
5865013249101	4608	20	0.222222	4.8042	5	6.43859	7	9.968189	10
5865013252225	4608	69	0.766667	12.463	13	15.4982	16	22.05416	23
5865013369219	4608	6	0.066667	2.0809	3	2.97607	3	4.909307	5
5865013369220	4608	2	0.022222	1.0387	2	1.55556	2	2.671712	3
5895000395432	4608	27	0.3	6	6	7.89898	8	12	12
5895000395434	4608	8	0.088889	2.5219	3	3.55556	4	5.787868	6
5895000395441	4608	14	0.155556	3.7158	4	5.08322	6	8.036296	9
5895000395455	4608	4	0.044444	1.5991	2	2.33006	3	3.908546	4
5895000395456	4608	8	0.088889	2.5219	3	3.55556	4	5.787868	6
5895000395461	4608	6	0.066667	2.0809	3	2.97607	3	4.909307	5
5895000395486	4608	18	0.2	4.4495	5	6	6	9.348469	10
5895000894522	4608	22	0.244444	5.1525	6	6.86661	7	10.56848	11
58950009049816	4608	9	0.1	2.7321	3	3.82843	4	6.196152	7
5895010701444	4608	1	0.011111	0.6885	1	1.05392	2	1.843162	2
5895010720788	4608	10	0.111111	2.9369	3	4.09254	5	6.588337	7
5895010981156	4608	4	0.044444	1.5991	2	2.33006	3	3.908546	4
5895011184566	4608	2	0.022222	1.0387	2	1.55556	2	2.671712	3
5895011327476	4608	12	0.133333	3.3333	4	4.59932	5	7.333333	8
5895011521514	4608	4	0.044444	1.5991	2	2.33006	3	3.908546	4
5895011525214	4608	6	0.066667	2.0809	3	2.97607	3	4.909307	5
5895011549125	4608	57	0.633333	10.692	11	13.4514	14	19.41003	20
5895012108603	4608	2	0.022222	1.0387	2	1.55556	2	2.671712	3
5895012199387	4608	19	0.211111	4.6277	5	6.22072	7	9.660946	10
5895012242177	4608	46	0.511111	9.0269	10	11.5056	12	16.85845	17
5895012278845	4608	4	0.044444	1.5991	2	2.33006	3	3.908546	4
5895012467910	4608	10	0.111111	2.9369	3	4.09254	5	6.588337	7
5895012919918	4608	32	0.355556	6.8215	7	8.88889	9	13.35351	14
5985000987346	4608	4	0.044444	1.5991	2	2.33006	3	3.908546	4
5985005205875	4608	10	0.111111	2.9369	3	4.09254	5	6.588337	7
5985011041424	4608	5	0.055556	1.8466	2	2.66374	3	4.428539	5
5985011847881	4608	2	0.022222	1.0387	2	1.55556	2	2.671712	3
5985012822882	4608	6	0.066667	2.0809	3	2.97607	3	4.909307	5
5985012902072	4608	32	0.355556	6.8215	7	8.88889	9	13.35351	14
5999010803978	4608	2	0.022222	1.0387	2	1.55556	2	2.671712	3
6125006358795	4608	2	0.022222	1.0387	2	1.55556	2	2.671712	3
6130000410372	4608	11	0.122222	3.1371	4	4.34917	5	6.966785	7
6130007584485	4608	5	0.055556	1.8466	2	2.66374	3	4.428539	5
6130010573396	4608	2	0.022222	1.0387	2	1.55556	2	2.671712	3
6210007665189	4608	2	0.022222	1.0387	2	1.55556	2	2.671712	3
6210007665190	4608	2	0.022222	1.0387	2	1.55556	2	2.671712	3
6605010987557	4608	11	0.122222	3.1371	4	4.34917	5	6.966785	7
6610007269394	4608	2	0.022222	1.0387	2	1.55556	2	2.671712	3

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6610010750673	4608	2	0.022222	1.0387	2	1.55556	2	2.671712	3
6610010996186	4608	2	0.022222	1.0387	2	1.55556	2	2.671712	3
6615000656200	4608	1	0.011111	0.6885	1	1.05392	2	1.843162	2
6615005679423	4608	4	0.044444	1.5991	2	2.33006	3	3.908546	4
6615009224464	4608	4	0.044444	1.5991	2	2.33006	3	3.908546	4
6615009224465	4608	2	0.022222	1.0387	2	1.55556	2	2.671712	3
6615009224466	4608	24	0.266667	5.4951	6	7.28547	8	11.15195	12
6615009224467	4608	2	0.022222	1.0387	2	1.55556	2	2.671712	3
6615009224470	4608	2	0.022222	1.0387	2	1.55556	2	2.671712	3
6615009732218	4608	4	0.044444	1.5991	2	2.33006	3	3.908546	4
6615011072569	4608	20	0.222222	4.8042	5	6.43859	7	9.968189	10
6615011655941	4608	2	0.022222	1.0387	2	1.55556	2	2.671712	3
6615012253746	4608	10	0.111111	2.9369	3	4.09254	5	6.588337	7
6615012258215	4608	7	0.077778	2.3053	3	3.27222	4	5.360353	6
6615012662063	4608	5	0.055556	1.8466	2	2.66374	3	4.428539	5
6615013169054	4608	2	0.022222	1.0387	2	1.55556	2	2.671712	3
6620004459417	4608	2	0.022222	1.0387	2	1.55556	2	2.671712	3
6620005154541	4608	4	0.044444	1.5991	2	2.33006	3	3.908546	4
6625004713174	4608	3	0.033333	1.3333	2	1.96633	2	3.333333	4
6625008954446	4608	1	0.011111	0.6885	1	1.05392	2	1.843162	2
6645000763050	4608	2	0.022222	1.0387	2	1.55556	2	2.671712	3
6645001506526	4608	12	0.133333	3.3333	4	4.59932	5	7.333333	8
6645009508599	4608	8	0.088889	2.5219	3	3.55556	4	5.787868	6
6680010928262	4608	1	0.011111	0.6885	1	1.05392	2	1.843162	2
6695012013554	4608	1	0.011111	0.6885	1	1.05392	2	1.843162	2
6695013434006	4608	4	0.044444	1.5991	2	2.33006	3	3.908546	4
6760005587836	4608	4	0.044444	1.5991	2	2.33006	3	3.908546	4
1280009841063	4616	1	0.011111	0.6885	1	1.05392	2	1.843162	2
5826001351888	4616	2	0.022222	1.0387	2	1.55556	2	2.671712	3
5826006112389	4616	2	0.022222	1.0387	2	1.55556	2	2.671712	3
5831005195883	4616	1	0.011111	0.6885	1	1.05392	2	1.843162	2
5810012737820	4620	2	0.022222	1.0387	2	1.55556	2	2.671712	3
5821010621019	4620	2	0.022222	1.0387	2	1.55556	2	2.671712	3
5821010979133	4620	2	0.022222	1.0387	2	1.55556	2	2.671712	3
5821011038155	4620	10	0.111111	2.9369	3	4.09254	5	6.588337	7
5821012133980	4620	2	0.022222	1.0387	2	1.55556	2	2.671712	3
5821012287058	4620	22	0.244444	5.1525	6	6.86661	7	10.56848	11
5821012413149	4620	4	0.044444	1.5991	2	2.33006	3	3.908546	4
5821012587579	4620	3	0.033333	1.3333	2	1.96633	2	3.333333	4
5821012866543	4620	4	0.044444	1.5991	2	2.33006	3	3.908546	4
5821013115105	4620	9	0.1	2.7321	3	3.82843	4	6.196152	7
5826001345966	4620	8	0.088889	2.5219	3	3.55556	4	5.787868	6
5826001345968	4620	2	0.022222	1.0387	2	1.55556	2	2.671712	3
5826001345971	4620	10	0.111111	2.9369	3	4.09254	5	6.588337	7
5826001345972	4620	17	0.188889	4.2694	5	5.77619	6	9.030317	10
5826001345973	4620	14	0.155556	3.7158	4	5.08322	6	8.036296	9
5826001345974	4620	4	0.044444	1.5991	2	2.33006	3	3.908546	4
5826001345976	4620	2	0.022222	1.0387	2	1.55556	2	2.671712	3

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5826001345977	4620	28	0.311111	6.1662	7	8.09999	9	12.27626	13
5826001345979	4620	4	0.044444	1.5991	2	2.33006	3	3.908546	4
5826001345982	4620	6	0.066667	2.0809	3	2.97607	3	4.909307	5
5826001345985	4620	3	0.033333	1.3333	2	1.96633	2	3.333333	4
5826002755781	4620	5	0.055556	1.8466	2	2.66374	3	4.428539	5
5826003191378	4620	6	0.066667	2.0809	3	2.97607	3	4.909307	5
5826004445276	4620	8	0.088889	2.5219	3	3.55556	4	5.787868	6
5826005053094	4620	4	0.044444	1.5991	2	2.33006	3	3.908546	4
5826009178679	4620	12	0.133333	3.3333	4	4.59932	5	7.333333	8
5826010121938	4620	8	0.088889	2.5219	3	3.55556	4	5.787868	6
5826010127085	4620	1	0.011111	0.6885	1	1.05392	2	1.843162	2
5826010143656	4620	2	0.022222	1.0387	2	1.55556	2	2.671712	3
5826010456683	4620	1	0.011111	0.6885	1	1.05392	2	1.843162	2
5826013512143	4620	2	0.022222	1.0387	2	1.55556	2	2.671712	3
5831005195883	4620	40	0.444444	8.0959	9	10.4073	11	15.3989	16
5841001345975	4620	5	0.055556	1.8466	2	2.66374	3	4.428539	5
5841008047159	4620	8	0.088889	2.5219	3	3.55556	4	5.787868	6
5841010537872	4620	10	0.111111	2.9369	3	4.09254	5	6.588337	7
5841010537874	4620	12	0.133333	3.3333	4	4.59932	5	7.333333	8
5841010568647	4620	21	0.233333	4.9791	5	6.65383	7	10.27059	11
5841010693756	4620	2	0.022222	1.0387	2	1.55556	2	2.671712	3
5841010781344	4620	2	0.022222	1.0387	2	1.55556	2	2.671712	3
5841012827090	4620	4	0.044444	1.5991	2	2.33006	3	3.908546	4
5841012827091	4620	14	0.155556	3.7158	4	5.08322	6	8.036296	9
5841012827093	4620	25	0.277778	5.6645	6	7.49182	8	11.43803	12
5895000894522	4620	20	0.222222	4.8042	5	6.43859	7	9.968189	10
5895001602198	4620	2	0.022222	1.0387	2	1.55556	2	2.671712	3
5895009001196	4620	3	0.033333	1.3333	2	1.96633	2	3.333333	4
5895010537839	4620	7	0.077778	2.3053	3	3.27222	4	5.360353	6
5975011046852	4620	1	0.011111	0.6885	1	1.05392	2	1.843162	2
5985010537676	4620	3	0.033333	1.3333	2	1.96633	2	3.333333	4
5985011041424	4620	8	0.088889	2.5219	3	3.55556	4	5.787868	6
5985011515848	4620	4	0.044444	1.5991	2	2.33006	3	3.908546	4
5985012827891	4620	13	0.144444	3.5261	4	4.84379	5	7.689442	8
6130010568665	4620	18	0.2	4.4495	5	6	6	9.348469	10
6605005012379	4620	8	0.088889	2.5219	3	3.55556	4	5.787868	6
6605005569318	4620	14	0.155556	3.7158	4	5.08322	6	8.036296	9
6605005659797	4620	2	0.022222	1.0387	2	1.55556	2	2.671712	3
6605006202801	4620	4	0.044444	1.5991	2	2.33006	3	3.908546	4
6605006208635	4620	6	0.066667	2.0809	3	2.97607	3	4.909307	5
6605006517991	4620	4	0.044444	1.5991	2	2.33006	3	3.908546	4
6605006719631	4620	4	0.044444	1.5991	2	2.33006	3	3.908546	4
6605008985597	4620	2	0.022222	1.0387	2	1.55556	2	2.671712	3
6605010182181	4620	33	0.366667	6.9833	7	9.08269	10	13.61654	14
6605011375957	4620	15	0.166667	3.9027	4	5.31815	6	8.374871	9
6615009732218	4620	24	0.266667	5.4951	6	7.28547	8	11.15195	12
6615011382369	4620	6	0.066667	2.0809	3	2.97607	3	4.909307	5
6615012253744	4620	3	0.033333	1.3333	2	1.96633	2	3.333333	4
6615012253745	4620	6	0.066667	2.0809	3	2.97607	3	4.909307	5
6615012258139	4620	8	0.088889	2.5219	3	3.55556	4	5.787868	6

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6615012261012	4620	2	0.022222	1.0387	2	1.55556	2	2.671712	3
6625004713174	4620	6	0.066667	2.0809	3	2.97607	3	4.909307	5
6625008954446	4620	2	0.022222	1.0387	2	1.55556	2	2.671712	3
6645001506526	4620	11	0.122222	3.1371	4	4.34917	5	6.966785	7
6645009508599	4620	2	0.022222	1.0387	2	1.55556	2	2.671712	3
6695011577072	4620	2	0.022222	1.0387	2	1.55556	2	2.671712	3
6695012013554	4620	2	0.022222	1.0387	2	1.55556	2	2.671712	3
5810000613386	4621	3	0.033333	1.3333	2	1.96633	2	3.333333	4
5810010508115	4621	4	0.044444	1.5991	2	2.33006	3	3.908546	4
5810012737820	4621	4	0.044444	1.5991	2	2.33006	3	3.908546	4
5821010621019	4621	4	0.044444	1.5991	2	2.33006	3	3.908546	4
5821011038155	4621	11	0.122222	3.1371	4	4.34917	5	6.966785	7
5821012133980	4621	2	0.022222	1.0387	2	1.55556	2	2.671712	3
5821012287058	4621	21	0.233333	4.9791	5	6.65383	7	10.27059	11
5821012587579	4621	4	0.044444	1.5991	2	2.33006	3	3.908546	4
5821012587580	4621	1	0.011111	0.6885	1	1.05392	2	1.843162	2
5821012866543	4621	2	0.022222	1.0387	2	1.55556	2	2.671712	3
5821013115105	4621	6	0.066667	2.0809	3	2.97607	3	4.909307	5
5826001345966	4621	5	0.055556	1.8466	2	2.66374	3	4.428539	5
5826001345967	4621	1	0.011111	0.6885	1	1.05392	2	1.843162	2
5826001345968	4621	2	0.022222	1.0387	2	1.55556	2	2.671712	3
5826001345971	4621	6	0.066667	2.0809	3	2.97607	3	4.909307	5
5826001345972	4621	8	0.088889	2.5219	3	3.55556	4	5.787868	6
5826001345973	4621	2	0.022222	1.0387	2	1.55556	2	2.671712	3
5826001345976	4621	2	0.022222	1.0387	2	1.55556	2	2.671712	3
5826001345977	4621	18	0.2	4.4495	5	6	6	9.348469	10
5826001345979	4621	6	0.066667	2.0809	3	2.97607	3	4.909307	5
5826001345982	4621	4	0.044444	1.5991	2	2.33006	3	3.908546	4
5826001345985	4621	4	0.044444	1.5991	2	2.33006	3	3.908546	4
5826001351888	4621	2	0.022222	1.0387	2	1.55556	2	2.671712	3
5826002755781	4621	5	0.055556	1.8466	2	2.66374	3	4.428539	5
5826003191378	4621	1	0.011111	0.6885	1	1.05392	2	1.843162	2
5826005053094	4621	2	0.022222	1.0387	2	1.55556	2	2.671712	3
5826009178679	4621	4	0.044444	1.5991	2	2.33006	3	3.908546	4
5826010121938	4621	7	0.077778	2.3053	3	3.27222	4	5.360353	6
5826011244793	4621	1	0.011111	0.6885	1	1.05392	2	1.843162	2
5831005195881	4621	2	0.022222	1.0387	2	1.55556	2	2.671712	3
5831005195883	4621	12	0.133333	3.3333	4	4.59932	5	7.333333	8
5841001345975	4621	5	0.055556	1.8466	2	2.66374	3	4.428539	5
5841008047159	4621	7	0.077778	2.3053	3	3.27222	4	5.360353	6
5841010537872	4621	5	0.055556	1.8466	2	2.66374	3	4.428539	5
5841010537874	4621	3	0.033333	1.3333	2	1.96633	2	3.333333	4
5841010568647	4621	23	0.255556	5.3244	6	7.07711	8	10.86218	11
5841010693756	4621	2	0.022222	1.0387	2	1.55556	2	2.671712	3
5841012827090	4621	11	0.122222	3.1371	4	4.34917	5	6.966785	7
5841012827091	4621	11	0.122222	3.1371	4	4.34917	5	6.966785	7
5841012827093	4621	15	0.166667	3.9027	4	5.31815	6	8.374871	9
5841012830065	4621	7	0.077778	2.3053	3	3.27222	4	5.360353	6
5895000894522	4621	20	0.222222	4.8042	5	6.43859	7	9.968189	10

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5895003477178	4621	1	0.011111	0.6885	1	1.05392	2	1.843162	2
5895010537839	4621	1	0.011111	0.6885	1	1.05392	2	1.843162	2
5985010537676	4621	1	0.011111	0.6885	1	1.05392	2	1.843162	2
5985011515848	4621	2	0.022222	1.0387	2	1.55556	2	2.671712	3
5985012827891	4621	7	0.077778	2.3053	3	3.27222	4	5.360353	6
6130010568665	4621	8	0.088889	2.5219	3	3.55556	4	5.787868	6
6605005012379	4621	4	0.044444	1.5991	2	2.33006	3	3.908546	4
6605005040935	4621	2	0.022222	1.0387	2	1.55556	2	2.671712	3
6605005569318	4621	6	0.066667	2.0809	3	2.97607	3	4.909307	5
6605005659797	4621	1	0.011111	0.6885	1	1.05392	2	1.843162	2
6605006202801	4621	2	0.022222	1.0387	2	1.55556	2	2.671712	3
6605006719631	4621	2	0.022222	1.0387	2	1.55556	2	2.671712	3
6605008329691	4621	2	0.022222	1.0387	2	1.55556	2	2.671712	3
6605008985597	4621	6	0.066667	2.0809	3	2.97607	3	4.909307	5
6605011375957	4621	12	0.133333	3.3333	4	4.59932	5	7.333333	8
6610007269394	4621	2	0.022222	1.0387	2	1.55556	2	2.671712	3
6610008792788	4621	4	0.044444	1.5991	2	2.33006	3	3.908546	4
6615009732218	4621	12	0.133333	3.3333	4	4.59932	5	7.333333	8
6615011382369	4621	3	0.033333	1.3333	2	1.96633	2	3.333333	4
6615012253744	4621	2	0.022222	1.0387	2	1.55556	2	2.671712	3
6615012253745	4621	9	0.1	2.7321	3	3.82843	4	6.196152	7
6615012258139	4621	18	0.2	4.4495	5	6	6	9.348469	10
6615012258241	4621	1	0.011111	0.6885	1	1.05392	2	1.843162	2
6615012261012	4621	1	0.011111	0.6885	1	1.05392	2	1.843162	2
6625004713174	4621	1	0.011111	0.6885	1	1.05392	2	1.843162	2
6645001506526	4621	2	0.022222	1.0387	2	1.55556	2	2.671712	3
6645009508599	4621	2	0.022222	1.0387	2	1.55556	2	2.671712	3
1270011126862	4625	2	0.022222	1.0387	2	1.55556	2	2.671712	3
5810010842200	4625	2	0.022222	1.0387	2	1.55556	2	2.671712	3
5821010031336	4625	2	0.022222	1.0387	2	1.55556	2	2.671712	3
5821010621019	4625	2	0.022222	1.0387	2	1.55556	2	2.671712	3
5821011376301	4625	5	0.055556	1.8466	2	2.66374	3	4.428539	5
5821013123525	4625	1	0.011111	0.6885	1	1.05392	2	1.843162	2
5826010121919	4625	1	0.011111	0.6885	1	1.05392	2	1.843162	2
5826010121938	4625	4	0.044444	1.5991	2	2.33006	3	3.908546	4
5826010409798	4625	2	0.022222	1.0387	2	1.55556	2	2.671712	3
5895010485194	4625	2	0.022222	1.0387	2	1.55556	2	2.671712	3
5895011126380	4625	4	0.044444	1.5991	2	2.33006	3	3.908546	4
6615005759682	4625	2	0.022222	1.0387	2	1.55556	2	2.671712	3
6645001506526	4625	4	0.044444	1.5991	2	2.33006	3	3.908546	4
6695012013554	4625	2	0.022222	1.0387	2	1.55556	2	2.671712	3
6695013434006	4625	4	0.044444	1.5991	2	2.33006	3	3.908546	4
5810010508115	4626	2	0.022222	1.0387	2	1.55556	2	2.671712	3
5815010564186	4626	2	0.022222	1.0387	2	1.55556	2	2.671712	3
5815011251526	4626	4	0.044444	1.5991	2	2.33006	3	3.908546	4
5821010621019	4626	2	0.022222	1.0387	2	1.55556	2	2.671712	3
5821010649794	4626	1	0.011111	0.6885	1	1.05392	2	1.843162	2
5821012287058	4626	2	0.022222	1.0387	2	1.55556	2	2.671712	3

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5821012587579	4626	1	0.011111	0.6885	1	1.05392	2	1.843162	2
5821012587580	4626	1	0.011111	0.6885	1	1.05392	2	1.843162	2
5821012866543	4626	2	0.022222	1.0387	2	1.55556	2	2.671712	3
5821013115105	4626	4	0.044444	1.5991	2	2.33006	3	3.908546	4
5826001345970	4626	2	0.022222	1.0387	2	1.55556	2	2.671712	3
5826001345971	4626	6	0.066667	2.0809	3	2.97607	3	4.909307	5
5826001345976	4626	2	0.022222	1.0387	2	1.55556	2	2.671712	3
5826001345977	4626	6	0.066667	2.0809	3	2.97607	3	4.909307	5
5826001345979	4626	2	0.022222	1.0387	2	1.55556	2	2.671712	3
5826009178679	4626	2	0.022222	1.0387	2	1.55556	2	2.671712	3
5826009902331	4626	2	0.022222	1.0387	2	1.55556	2	2.671712	3
5826012371912	4626	2	0.022222	1.0387	2	1.55556	2	2.671712	3
5831005195883	4626	2	0.022222	1.0387	2	1.55556	2	2.671712	3
5841001345975	4626	3	0.033333	1.3333	2	1.96633	2	3.333333	4
5841008047159	4626	3	0.033333	1.3333	2	1.96633	2	3.333333	4
5841010537874	4626	1	0.011111	0.6885	1	1.05392	2	1.843162	2
5841012827090	4626	1	0.011111	0.6885	1	1.05392	2	1.843162	2
5841012827091	4626	4	0.044444	1.5991	2	2.33006	3	3.908546	4
5841012827093	4626	10	0.111111	2.9369	3	4.09254	5	6.588337	7
5841012830065	4626	2	0.022222	1.0387	2	1.55556	2	2.671712	3
5895000894522	4626	2	0.022222	1.0387	2	1.55556	2	2.671712	3
5895010701444	4626	2	0.022222	1.0387	2	1.55556	2	2.671712	3
5985011041424	4626	6	0.066667	2.0809	3	2.97607	3	4.909307	5
5985012827891	4626	6	0.066667	2.0809	3	2.97607	3	4.909307	5
6605006208635	4626	2	0.022222	1.0387	2	1.55556	2	2.671712	3
6605006517991	4626	2	0.022222	1.0387	2	1.55556	2	2.671712	3
6605010352009	4626	2	0.022222	1.0387	2	1.55556	2	2.671712	3
6605011375957	4626	3	0.033333	1.3333	2	1.96633	2	3.333333	4
6615009732218	4626	3	0.033333	1.3333	2	1.96633	2	3.333333	4
6615011382369	4626	2	0.022222	1.0387	2	1.55556	2	2.671712	3
6615012253744	4626	2	0.022222	1.0387	2	1.55556	2	2.671712	3
6615012258139	4626	6	0.066667	2.0809	3	2.97607	3	4.909307	5
6645001506526	4626	2	0.022222	1.0387	2	1.55556	2	2.671712	3
4920011548792	4654	3	0.033333	1.3333	2	1.96633	2	3.333333	4
5810012737820	4654	2	0.022222	1.0387	2	1.55556	2	2.671712	3
5821010621019	4654	12	0.133333	3.3333	4	4.59932	5	7.333333	8
5821010772503	4654	2	0.022222	1.0387	2	1.55556	2	2.671712	3
5821012287058	4654	5	0.055556	1.8466	2	2.66374	3	4.428539	5
5821013115105	4654	1	0.011111	0.6885	1	1.05392	2	1.843162	2
5826001345966	4654	1	0.011111	0.6885	1	1.05392	2	1.843162	2
5826001345968	4654	2	0.022222	1.0387	2	1.55556	2	2.671712	3
5826001345972	4654	1	0.011111	0.6885	1	1.05392	2	1.843162	2
5826001345973	4654	4	0.044444	1.5991	2	2.33006	3	3.908546	4
5826001345976	4654	4	0.044444	1.5991	2	2.33006	3	3.908546	4
5826001345977	4654	3	0.033333	1.3333	2	1.96633	2	3.333333	4
5826001345978	4654	1	0.011111	0.6885	1	1.05392	2	1.843162	2
5826001345982	4654	2	0.022222	1.0387	2	1.55556	2	2.671712	3
5826001345985	4654	1	0.011111	0.6885	1	1.05392	2	1.843162	2
5826002755781	4654	1	0.011111	0.6885	1	1.05392	2	1.843162	2

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5826004445276	4654	2	0.022222	1.0387	2	1.55556	2	2.671712	3
5826008974122	4654	1	0.011111	0.6885	1	1.05392	2	1.843162	2
5826009178679	4654	3	0.033333	1.3333	2	1.96633	2	3.333333	4
5826009902331	4654	3	0.033333	1.3333	2	1.96633	2	3.333333	4
5826010121938	4654	5	0.055556	1.8466	2	2.66374	3	4.428539	5
5826010130861	4654	1	0.011111	0.6885	1	1.05392	2	1.843162	2
5831005195881	4654	1	0.011111	0.6885	1	1.05392	2	1.843162	2
5831005195883	4654	12	0.133333	3.3333	4	4.59932	5	7.333333	8
5841001345975	4654	3	0.033333	1.3333	2	1.96633	2	3.333333	4
5841008047159	4654	3	0.033333	1.3333	2	1.96633	2	3.333333	4
5841010537872	4654	1	0.011111	0.6885	1	1.05392	2	1.843162	2
5841010537874	4654	2	0.022222	1.0387	2	1.55556	2	2.671712	3
5841010568647	4654	2	0.022222	1.0387	2	1.55556	2	2.671712	3
5841010693756	4654	1	0.011111	0.6885	1	1.05392	2	1.843162	2
5841012827091	4654	8	0.088889	2.5219	3	3.55556	4	5.787868	6
5865011106043	4654	2	0.022222	1.0387	2	1.55556	2	2.671712	3
5895003477178	4654	2	0.022222	1.0387	2	1.55556	2	2.671712	3
5895004263144	4654	2	0.022222	1.0387	2	1.55556	2	2.671712	3
5985011041424	4654	2	0.022222	1.0387	2	1.55556	2	2.671712	3
5985012827891	4654	2	0.022222	1.0387	2	1.55556	2	2.671712	3
6130010568665	4654	3	0.033333	1.3333	2	1.96633	2	3.333333	4
6130010573396	4654	2	0.022222	1.0387	2	1.55556	2	2.671712	3
6605005569318	4654	4	0.044444	1.5991	2	2.33006	3	3.908546	4
6605005659797	4654	2	0.022222	1.0387	2	1.55556	2	2.671712	3
6605006517991	4654	2	0.022222	1.0387	2	1.55556	2	2.671712	3
6615011382369	4654	2	0.022222	1.0387	2	1.55556	2	2.671712	3
6615012258139	4654	6	0.066667	2.0809	3	2.97607	3	4.909307	5
6615012258214	4654	4	0.044444	1.5991	2	2.33006	3	3.908546	4
6625004713174	4654	2	0.022222	1.0387	2	1.55556	2	2.671712	3
6645009508599	4654	2	0.022222	1.0387	2	1.55556	2	2.671712	3
4920011548792	4659	3	0.033333	1.3333	2	1.96633	2	3.333333	4
5810000613386	4659	2	0.022222	1.0387	2	1.55556	2	2.671712	3
5810010508115	4659	3	0.033333	1.3333	2	1.96633	2	3.333333	4
5810012737820	4659	2	0.022222	1.0387	2	1.55556	2	2.671712	3
5821010621019	4659	2	0.022222	1.0387	2	1.55556	2	2.671712	3
5821010649794	4659	2	0.022222	1.0387	2	1.55556	2	2.671712	3
5821011038155	4659	1	0.011111	0.6885	1	1.05392	2	1.843162	2
5821012133980	4659	2	0.022222	1.0387	2	1.55556	2	2.671712	3
5821012287058	4659	2	0.022222	1.0387	2	1.55556	2	2.671712	3
5821012587579	4659	4	0.044444	1.5991	2	2.33006	3	3.908546	4
5821012866543	4659	1	0.011111	0.6885	1	1.05392	2	1.843162	2
5821013115105	4659	1	0.011111	0.6885	1	1.05392	2	1.843162	2
5826001345966	4659	1	0.011111	0.6885	1	1.05392	2	1.843162	2
5826001345971	4659	5	0.055556	1.8466	2	2.66374	3	4.428539	5
5826001345972	4659	4	0.044444	1.5991	2	2.33006	3	3.908546	4
5826001345976	4659	1	0.011111	0.6885	1	1.05392	2	1.843162	2
5826001345977	4659	13	0.144444	3.5261	4	4.84379	5	7.689442	8
5826001345978	4659	5	0.055556	1.8466	2	2.66374	3	4.428539	5
5826001345979	4659	7	0.077778	2.3053	3	3.27222	4	5.360353	6

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5826001345985	4659	2	0.022222	1.0387	2	1.55556	2	2.671712	3
5826002755781	4659	12	0.133333	3.3333	4	4.59932	5	7.333333	8
5826003191378	4659	2	0.022222	1.0387	2	1.55556	2	2.671712	3
5826004445276	4659	1	0.011111	0.6885	1	1.05392	2	1.843162	2
5826005053097	4659	2	0.022222	1.0387	2	1.55556	2	2.671712	3
5826005053242	4659	2	0.022222	1.0387	2	1.55556	2	2.671712	3
5826006112389	4659	2	0.022222	1.0387	2	1.55556	2	2.671712	3
5826009178679	4659	11	0.122222	3.1371	4	4.34917	5	6.966785	7
5826009902331	4659	2	0.022222	1.0387	2	1.55556	2	2.671712	3
5826010121938	4659	14	0.155556	3.7158	4	5.08322	6	8.036296	9
5826010124864	4659	2	0.022222	1.0387	2	1.55556	2	2.671712	3
5826011244793	4659	1	0.011111	0.6885	1	1.05392	2	1.843162	2
5831005195881	4659	2	0.022222	1.0387	2	1.55556	2	2.671712	3
5831005195883	4659	29	0.322222	6.3313	7	8.2994	9	12.5496	13
5841001345975	4659	1	0.011111	0.6885	1	1.05392	2	1.843162	2
5841008047159	4659	10	0.111111	2.9369	3	4.09254	5	6.588337	7
5841010537872	4659	2	0.022222	1.0387	2	1.55556	2	2.671712	3
5841010537874	4659	8	0.088889	2.5219	3	3.55556	4	5.787868	6
5841010568647	4659	15	0.166667	3.9027	4	5.31815	6	8.374871	9
5841010781344	4659	2	0.022222	1.0387	2	1.55556	2	2.671712	3
5841012827090	4659	9	0.1	2.7321	3	3.82843	4	6.196152	7
5841012827091	4659	11	0.122222	3.1371	4	4.34917	5	6.966785	7
5841012827093	4659	30	0.333333	6.4956	7	8.49731	9	12.82017	13
5841012830065	4659	8	0.088889	2.5219	3	3.55556	4	5.787868	6
5895000894522	4659	22	0.244444	5.1525	6	6.86661	7	10.56848	11
5895003477178	4659	2	0.022222	1.0387	2	1.55556	2	2.671712	3
5895009001196	4659	6	0.066667	2.0809	3	2.97607	3	4.909307	5
5985010537676	4659	2	0.022222	1.0387	2	1.55556	2	2.671712	3
5985012827891	4659	36	0.4	7.4641	8	9.65685	10	14.3923	15
6130010568665	4659	4	0.044444	1.5991	2	2.33006	3	3.908546	4
6130011827382	4659	1	0.011111	0.6885	1	1.05392	2	1.843162	2
6605005012379	4659	4	0.044444	1.5991	2	2.33006	3	3.908546	4
6605005569318	4659	4	0.044444	1.5991	2	2.33006	3	3.908546	4
6605006202801	4659	3	0.033333	1.3333	2	1.96633	2	3.333333	4
6605006517991	4659	2	0.022222	1.0387	2	1.55556	2	2.671712	3
6605006719631	4659	8	0.088889	2.5219	3	3.55556	4	5.787868	6
6605011375957	4659	8	0.088889	2.5219	3	3.55556	4	5.787868	6
6615009732218	4659	8	0.088889	2.5219	3	3.55556	4	5.787868	6
6615012253744	4659	4	0.044444	1.5991	2	2.33006	3	3.908546	4
6615012253745	4659	6	0.066667	2.0809	3	2.97607	3	4.909307	5
6615012258139	4659	18	0.2	4.4495	5	6	6	9.348469	10
6615012258214	4659	2	0.022222	1.0387	2	1.55556	2	2.671712	3
6615012261012	4659	2	0.022222	1.0387	2	1.55556	2	2.671712	3
6625008954446	4659	4	0.044444	1.5991	2	2.33006	3	3.908546	4
6645001506526	4659	7	0.077778	2.3053	3	3.27222	4	5.360353	6
6645009508599	4659	2	0.022222	1.0387	2	1.55556	2	2.671712	3
6695012013554	4659	2	0.022222	1.0387	2	1.55556	2	2.671712	3
1280011458646	4661	4	0.044444	1.5991	2	2.33006	3	3.908546	4
1280011882610	4661	2	0.022222	1.0387	2	1.55556	2	2.671712	3

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1280011887186	4661	2	0.022222	1.0387	2	1.55556	2	2.671712	3
1660011433525	4661	1	0.011111	0.6885	1	1.05392	2	1.843162	2
1660011486207	4661	2	0.022222	1.0387	2	1.55556	2	2.671712	3
1660012154559	4661	2	0.022222	1.0387	2	1.55556	2	2.671712	3
1680011874063	4661	2	0.022222	1.0387	2	1.55556	2	2.671712	3
2995011862828	4661	2	0.022222	1.0387	2	1.55556	2	2.671712	3
2995012113924	4661	2	0.022222	1.0387	2	1.55556	2	2.671712	3
5810000613386	4661	107	1.188889	17.861	18	21.6414	22	29.80536	30
5810010269624	4661	2	0.022222	1.0387	2	1.55556	2	2.671712	3
5815010550357	4661	4	0.044444	1.5991	2	2.33006	3	3.908546	4
5815010564186	4661	2	0.022222	1.0387	2	1.55556	2	2.671712	3
5815011251526	4661	4	0.044444	1.5991	2	2.33006	3	3.908546	4
5821010621019	4661	4	0.044444	1.5991	2	2.33006	3	3.908546	4
5821010651677	4661	4	0.044444	1.5991	2	2.33006	3	3.908546	4
5821011369512	4661	1	0.011111	0.6885	1	1.05392	2	1.843162	2
5821011376301	4661	2	0.022222	1.0387	2	1.55556	2	2.671712	3
5821011659342	4661	12	0.133333	3.3333	4	4.59932	5	7.333333	8
5821012287058	4661	4	0.044444	1.5991	2	2.33006	3	3.908546	4
5821012587579	4661	1	0.011111	0.6885	1	1.05392	2	1.843162	2
5821012587581	4661	1	0.011111	0.6885	1	1.05392	2	1.843162	2
5821013115105	4661	4	0.044444	1.5991	2	2.33006	3	3.908546	4
5826002411011	4661	4	0.044444	1.5991	2	2.33006	3	3.908546	4
5826005050793	4661	2	0.022222	1.0387	2	1.55556	2	2.671712	3
5826010121938	4661	8	0.088889	2.5219	3	3.55556	4	5.787868	6
5826012368622	4661	3	0.033333	1.3333	2	1.96633	2	3.333333	4
5840010073959	4661	2	0.022222	1.0387	2	1.55556	2	2.671712	3
5841010042227	4661	14	0.155556	3.7158	4	5.08322	6	8.036296	9
5841010568647	4661	3	0.033333	1.3333	2	1.96633	2	3.333333	4
5841011274935	4661	14	0.155556	3.7158	4	5.08322	6	8.036296	9
5841011435778	4661	2	0.022222	1.0387	2	1.55556	2	2.671712	3
5841011435912	4661	3	0.033333	1.3333	2	1.96633	2	3.333333	4
5841012029769	4661	5	0.055556	1.8466	2	2.66374	3	4.428539	5
5841012827090	4661	4	0.044444	1.5991	2	2.33006	3	3.908546	4
5841012827093	4661	21	0.233333	4.9791	5	6.65383	7	10.27059	11
5841012830065	4661	2	0.022222	1.0387	2	1.55556	2	2.671712	3
5865012340860	4661	1	0.011111	0.6885	1	1.05392	2	1.843162	2
5895001491319	4661	4	0.044444	1.5991	2	2.33006	3	3.908546	4
5895001602198	4661	17	0.188889	4.2694	5	5.77619	6	9.030317	10
5895011126380	4661	24	0.266667	5.4951	6	7.28547	8	11.15195	12
5895012278845	4661	1	0.011111	0.6885	1	1.05392	2	1.843162	2
5895012834089	4661	4	0.044444	1.5991	2	2.33006	3	3.908546	4
5950011899159	4661	2	0.022222	1.0387	2	1.55556	2	2.671712	3
5985010537675	4661	2	0.022222	1.0387	2	1.55556	2	2.671712	3
5985011515848	4661	1	0.011111	0.6885	1	1.05392	2	1.843162	2
5985012827892	4661	4	0.044444	1.5991	2	2.33006	3	3.908546	4
5998011661318	4661	2	0.022222	1.0387	2	1.55556	2	2.671712	3
5998011661324	4661	1	0.011111	0.6885	1	1.05392	2	1.843162	2
5998011661330	4661	2	0.022222	1.0387	2	1.55556	2	2.671712	3
5998011661331	4661	2	0.022222	1.0387	2	1.55556	2	2.671712	3
5998011787809	4661	1	0.011111	0.6885	1	1.05392	2	1.843162	2

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5998011793977	4661	4	0.044444	1.5991	2	2.33006	3	3.908546	4
5998011793982	4661	2	0.022222	1.0387	2	1.55556	2	2.671712	3
5998011799684	4661	8	0.088889	2.5219	3	3.55556	4	5.787868	6
5998011807496	4661	2	0.022222	1.0387	2	1.55556	2	2.671712	3
5998011811313	4661	4	0.044444	1.5991	2	2.33006	3	3.908546	4
5998012847254	4661	1	0.011111	0.6885	1	1.05392	2	1.843162	2
5998012908614	4661	5	0.055556	1.8466	2	2.66374	3	4.428539	5
5998013023458	4661	4	0.044444	1.5991	2	2.33006	3	3.908546	4
5998013072615	4661	3	0.033333	1.3333	2	1.96633	2	3.333333	4
5998013080908	4661	2	0.022222	1.0387	2	1.55556	2	2.671712	3
5998013476724	4661	2	0.022222	1.0387	2	1.55556	2	2.671712	3
5999011566072	4661	2	0.022222	1.0387	2	1.55556	2	2.671712	3
5999011743216	4661	1	0.011111	0.6885	1	1.05392	2	1.843162	2
5999012684664	4661	2	0.022222	1.0387	2	1.55556	2	2.671712	3
5999012704819	4661	2	0.022222	1.0387	2	1.55556	2	2.671712	3
6110012575267	4661	2	0.022222	1.0387	2	1.55556	2	2.671712	3
6130010568665	4661	2	0.022222	1.0387	2	1.55556	2	2.671712	3
6130011791848	4661	4	0.044444	1.5991	2	2.33006	3	3.908546	4
6605011828850	4661	2	0.022222	1.0387	2	1.55556	2	2.671712	3
6610011802184	4661	2	0.022222	1.0387	2	1.55556	2	2.671712	3
6610011806298	4661	2	0.022222	1.0387	2	1.55556	2	2.671712	3
6610011814214	4661	2	0.022222	1.0387	2	1.55556	2	2.671712	3
6610011814398	4661	2	0.022222	1.0387	2	1.55556	2	2.671712	3
6610012092505	4661	2	0.022222	1.0387	2	1.55556	2	2.671712	3
6610012184287	4661	2	0.022222	1.0387	2	1.55556	2	2.671712	3
6610013076362	4661	1	0.011111	0.6885	1	1.05392	2	1.843162	2
6610013076363	4661	2	0.022222	1.0387	2	1.55556	2	2.671712	3
6615009732218	4661	22	0.244444	5.1525	6	6.86661	7	10.56848	11
6615010351092	4661	1	0.011111	0.6885	1	1.05392	2	1.843162	2
6615010471190	4661	2	0.022222	1.0387	2	1.55556	2	2.671712	3
6615011791782	4661	2	0.022222	1.0387	2	1.55556	2	2.671712	3
6615011793976	4661	4	0.044444	1.5991	2	2.33006	3	3.908546	4
6615011794007	4661	3	0.033333	1.3333	2	1.96633	2	3.333333	4
6615011830334	4661	1	0.011111	0.6885	1	1.05392	2	1.843162	2
6615012639957	4661	2	0.022222	1.0387	2	1.55556	2	2.671712	3
6615012768318	4661	2	0.022222	1.0387	2	1.55556	2	2.671712	3
6620011644913	4661	2	0.022222	1.0387	2	1.55556	2	2.671712	3
6620011835122	4661	3	0.033333	1.3333	2	1.96633	2	3.333333	4
6625004713174	4661	1	0.011111	0.6885	1	1.05392	2	1.843162	2
6625008954446	4661	4	0.044444	1.5991	2	2.33006	3	3.908546	4
6645000763050	4661	4	0.044444	1.5991	2	2.33006	3	3.908546	4
6645009508599	4661	2	0.022222	1.0387	2	1.55556	2	2.671712	3
6680011441284	4661	2	0.022222	1.0387	2	1.55556	2	2.671712	3
5810000613386	4664	16	0.177778	4.0872	5	5.54901	6	8.705981	9
5810010269624	4664	2	0.022222	1.0387	2	1.55556	2	2.671712	3
5810010508115	4664	2	0.022222	1.0387	2	1.55556	2	2.671712	3
5810010508116	4664	4	0.044444	1.5991	2	2.33006	3	3.908546	4
5810010842200	4664	2	0.022222	1.0387	2	1.55556	2	2.671712	3
5810012737820	4664	2	0.022222	1.0387	2	1.55556	2	2.671712	3

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5815010564186	4664	2	0.022222	1.0387	2	1.55556	2	2.671712	3
5821013123525	4664	2	0.022222	1.0387	2	1.55556	2	2.671712	3
5826001345966	4664	1	0.011111	0.6885	1	1.05392	2	1.843162	2
5826001345973	4664	1	0.011111	0.6885	1	1.05392	2	1.843162	2
5826001345974	4664	1	0.011111	0.6885	1	1.05392	2	1.843162	2
5826001345977	4664	3	0.033333	1.3333	2	1.96633	2	3.333333	4
5826009178679	4664	2	0.022222	1.0387	2	1.55556	2	2.671712	3
5841001345975	4664	6	0.066667	2.0809	3	2.97607	3	4.909307	5
5895001602198	4664	3	0.033333	1.3333	2	1.96633	2	3.333333	4
5895012278845	4664	5	0.055556	1.8466	2	2.66374	3	4.428539	5
6605005569318	4664	5	0.055556	1.8466	2	2.66374	3	4.428539	5
6615009732218	4664	2	0.022222	1.0387	2	1.55556	2	2.671712	3
6615012258139	4664	2	0.022222	1.0387	2	1.55556	2	2.671712	3
6645001506526	4664	4	0.044444	1.5991	2	2.33006	3	3.908546	4
6645009508599	4664	2	0.022222	1.0387	2	1.55556	2	2.671712	3
5821011038155	4672	1	0.011111	0.6885	1	1.05392	2	1.843162	2
5821012287058	4672	6	0.066667	2.0809	3	2.97607	3	4.909307	5
5826001345968	4672	2	0.022222	1.0387	2	1.55556	2	2.671712	3
5826001345971	4672	1	0.011111	0.6885	1	1.05392	2	1.843162	2
5826001345972	4672	3	0.033333	1.3333	2	1.96633	2	3.333333	4
5826001345974	4672	1	0.011111	0.6885	1	1.05392	2	1.843162	2
5826001345977	4672	4	0.044444	1.5991	2	2.33006	3	3.908546	4
5826009178679	4672	4	0.044444	1.5991	2	2.33006	3	3.908546	4
5831005195883	4672	4	0.044444	1.5991	2	2.33006	3	3.908546	4
5841010568647	4672	4	0.044444	1.5991	2	2.33006	3	3.908546	4
5841010693756	4672	2	0.022222	1.0387	2	1.55556	2	2.671712	3
5841012827090	4672	3	0.033333	1.3333	2	1.96633	2	3.333333	4
5841012827091	4672	2	0.022222	1.0387	2	1.55556	2	2.671712	3
5841012827093	4672	7	0.077778	2.3053	3	3.27222	4	5.360353	6
5895000894522	4672	10	0.111111	2.9369	3	4.09254	5	6.588337	7
5895010512651	4672	2	0.022222	1.0387	2	1.55556	2	2.671712	3
5985012827891	4672	3	0.033333	1.3333	2	1.96633	2	3.333333	4
6605006719631	4672	2	0.022222	1.0387	2	1.55556	2	2.671712	3
6605010182181	4672	13	0.144444	3.5261	4	4.84379	5	7.689442	8
6615009732218	4672	1	0.011111	0.6885	1	1.05392	2	1.843162	2
6625008954446	4672	2	0.022222	1.0387	2	1.55556	2	2.671712	3
6645001506526	4672	2	0.022222	1.0387	2	1.55556	2	2.671712	3
5821011376301	4686	5	0.055556	1.8466	2	2.66374	3	4.428539	5
5821012137333	4686	4	0.044444	1.5991	2	2.33006	3	3.908546	4
5826010121938	4686	2	0.022222	1.0387	2	1.55556	2	2.671712	3
6610009913858	4686	4	0.044444	1.5991	2	2.33006	3	3.908546	4
6645003274005	4686	2	0.022222	1.0387	2	1.55556	2	2.671712	3
1280001596180	4690	2	0.022222	1.0387	2	1.55556	2	2.671712	3
1280001596185	4690	3	0.033333	1.3333	2	1.96633	2	3.333333	4
1280002501236	4690	2	0.022222	1.0387	2	1.55556	2	2.671712	3
1280011042962	4690	4	0.044444	1.5991	2	2.33006	3	3.908546	4
1280011163832	4690	2	0.022222	1.0387	2	1.55556	2	2.671712	3

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1280011226908	4690	1	0.011111	0.6885	1	1.05392	2	1.843162	2
1280011512272	4690	6	0.066667	2.0809	3	2.97607	3	4.909307	5
1280011609427	4690	1	0.011111	0.6885	1	1.05392	2	1.843162	2
1280011882610	4690	2	0.022222	1.0387	2	1.55556	2	2.671712	3
1280012261145	4690	2	0.022222	1.0387	2	1.55556	2	2.671712	3
1280012287260	4690	2	0.022222	1.0387	2	1.55556	2	2.671712	3
2995012113924	4690	2	0.022222	1.0387	2	1.55556	2	2.671712	3
4810013353160	4690	2	0.022222	1.0387	2	1.55556	2	2.671712	3
5810000613386	4690	4	0.044444	1.5991	2	2.33006	3	3.908546	4
5810010508115	4690	4	0.044444	1.5991	2	2.33006	3	3.908546	4
5810012737820	4690	10	0.111111	2.9369	3	4.09254	5	6.588337	7
5815010564186	4690	4	0.044444	1.5991	2	2.33006	3	3.908546	4
5821001866309	4690	1	0.011111	0.6885	1	1.05392	2	1.843162	2
5821010651677	4690	10	0.111111	2.9369	3	4.09254	5	6.588337	7
5821012287058	4690	22	0.244444	5.1525	6	6.86661	7	10.56848	11
5821012587579	4690	8	0.088889	2.5219	3	3.55556	4	5.787868	6
5821012866543	4690	3	0.033333	1.3333	2	1.96633	2	3.333333	4
5821013117551	4690	4	0.044444	1.5991	2	2.33006	3	3.908546	4
5826010121938	4690	6	0.066667	2.0809	3	2.97607	3	4.909307	5
5826010124864	4690	2	0.022222	1.0387	2	1.55556	2	2.671712	3
5826010409798	4690	2	0.022222	1.0387	2	1.55556	2	2.671712	3
5826013109882	4690	2	0.022222	1.0387	2	1.55556	2	2.671712	3
5831008093180	4690	2	0.022222	1.0387	2	1.55556	2	2.671712	3
5831009993916	4690	2	0.022222	1.0387	2	1.55556	2	2.671712	3
5841011274935	4690	25	0.277778	5.6645	6	7.49182	8	11.43803	12
5841011507528	4690	2	0.022222	1.0387	2	1.55556	2	2.671712	3
5865010876670	4690	2	0.022222	1.0387	2	1.55556	2	2.671712	3
5865010887202	4690	2	0.022222	1.0387	2	1.55556	2	2.671712	3
5865011521792	4690	4	0.044444	1.5991	2	2.33006	3	3.908546	4
5865012348470	4690	4	0.044444	1.5991	2	2.33006	3	3.908546	4
5865012348471	4690	2	0.022222	1.0387	2	1.55556	2	2.671712	3
5865012365734	4690	4	0.044444	1.5991	2	2.33006	3	3.908546	4
5865012556889	4690	1	0.011111	0.6885	1	1.05392	2	1.843162	2
5865013077305	4690	4	0.044444	1.5991	2	2.33006	3	3.908546	4
5865013115110	4690	1	0.011111	0.6885	1	1.05392	2	1.843162	2
5895000395456	4690	2	0.022222	1.0387	2	1.55556	2	2.671712	3
5895000395461	4690	2	0.022222	1.0387	2	1.55556	2	2.671712	3
5895000894522	4690	5	0.055556	1.8466	2	2.66374	3	4.428539	5
5895010620002	4690	2	0.022222	1.0387	2	1.55556	2	2.671712	3
5895011126380	4690	6	0.066667	2.0809	3	2.97607	3	4.909307	5
5895011525214	4690	2	0.022222	1.0387	2	1.55556	2	2.671712	3
5895012199387	4690	2	0.022222	1.0387	2	1.55556	2	2.671712	3
5895012242177	4690	2	0.022222	1.0387	2	1.55556	2	2.671712	3
5895012278845	4690	5	0.055556	1.8466	2	2.66374	3	4.428539	5
5915010507361	4690	2	0.022222	1.0387	2	1.55556	2	2.671712	3
5950011899159	4690	3	0.033333	1.3333	2	1.96633	2	3.333333	4
5960011848831	4690	2	0.022222	1.0387	2	1.55556	2	2.671712	3
5985000987346	4690	2	0.022222	1.0387	2	1.55556	2	2.671712	3
5998011661318	4690	2	0.022222	1.0387	2	1.55556	2	2.671712	3
5998011661330	4690	1	0.011111	0.6885	1	1.05392	2	1.843162	2

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5998011787809	4690	4	0.044444	1.5991	2	2.33006	3	3.908546	4
5998011787810	4690	3	0.033333	1.3333	2	1.96633	2	3.333333	4
5998011793977	4690	5	0.055556	1.8466	2	2.66374	3	4.428539	5
5998011793981	4690	1	0.011111	0.6885	1	1.05392	2	1.843162	2
5998011793982	4690	5	0.055556	1.8466	2	2.66374	3	4.428539	5
5998011802139	4690	1	0.011111	0.6885	1	1.05392	2	1.843162	2
5998011811313	4690	4	0.044444	1.5991	2	2.33006	3	3.908546	4
5998012115515	4690	2	0.022222	1.0387	2	1.55556	2	2.671712	3
5998012147382	4690	1	0.011111	0.6885	1	1.05392	2	1.843162	2
5998012147421	4690	2	0.022222	1.0387	2	1.55556	2	2.671712	3
5998012149989	4690	2	0.022222	1.0387	2	1.55556	2	2.671712	3
5998012151812	4690	1	0.011111	0.6885	1	1.05392	2	1.843162	2
5998012151813	4690	11	0.122222	3.1371	4	4.34917	5	6.966785	7
5998012151814	4690	2	0.022222	1.0387	2	1.55556	2	2.671712	3
5998012151816	4690	1	0.011111	0.6885	1	1.05392	2	1.843162	2
5998012151820	4690	4	0.044444	1.5991	2	2.33006	3	3.908546	4
5998012152817	4690	1	0.011111	0.6885	1	1.05392	2	1.843162	2
5998012199403	4690	1	0.011111	0.6885	1	1.05392	2	1.843162	2
5998012908616	4690	2	0.022222	1.0387	2	1.55556	2	2.671712	3
5998013039376	4690	9	0.1	2.7321	3	3.82843	4	6.196152	7
5998013039377	4690	3	0.033333	1.3333	2	1.96633	2	3.333333	4
5998013072615	4690	4	0.044444	1.5991	2	2.33006	3	3.908546	4
5998013080908	4690	4	0.044444	1.5991	2	2.33006	3	3.908546	4
5998013080909	4690	1	0.011111	0.6885	1	1.05392	2	1.843162	2
5998013216836	4690	1	0.011111	0.6885	1	1.05392	2	1.843162	2
5999011661314	4690	2	0.022222	1.0387	2	1.55556	2	2.671712	3
5999012147410	4690	2	0.022222	1.0387	2	1.55556	2	2.671712	3
5999012620506	4690	1	0.011111	0.6885	1	1.05392	2	1.843162	2
6105012328318	4690	4	0.044444	1.5991	2	2.33006	3	3.908546	4
6130007584485	4690	2	0.022222	1.0387	2	1.55556	2	2.671712	3
6130011603432	4690	1	0.011111	0.6885	1	1.05392	2	1.843162	2
6130011734966	4690	2	0.022222	1.0387	2	1.55556	2	2.671712	3
6130012834075	4690	1	0.011111	0.6885	1	1.05392	2	1.843162	2
6130012905885	4690	2	0.022222	1.0387	2	1.55556	2	2.671712	3
6610011802184	4690	4	0.044444	1.5991	2	2.33006	3	3.908546	4
6610011806298	4690	5	0.055556	1.8466	2	2.66374	3	4.428539	5
6610011814214	4690	1	0.011111	0.6885	1	1.05392	2	1.843162	2
6610011814215	4690	3	0.033333	1.3333	2	1.96633	2	3.333333	4
6610011814398	4690	2	0.022222	1.0387	2	1.55556	2	2.671712	3
6610012142537	4690	2	0.022222	1.0387	2	1.55556	2	2.671712	3
6610012184287	4690	4	0.044444	1.5991	2	2.33006	3	3.908546	4
6610012594655	4690	2	0.022222	1.0387	2	1.55556	2	2.671712	3
6610012621507	4690	2	0.022222	1.0387	2	1.55556	2	2.671712	3
6610012628319	4690	4	0.044444	1.5991	2	2.33006	3	3.908546	4
6615012719168	4690	1	0.011111	0.6885	1	1.05392	2	1.843162	2
6620011644913	4690	4	0.044444	1.5991	2	2.33006	3	3.908546	4
6620011829328	4690	2	0.022222	1.0387	2	1.55556	2	2.671712	3
6680012639938	4690	1	0.011111	0.6885	1	1.05392	2	1.843162	2
1270010469884	4800	8	0.088889	2.5219	3	3.55556	4	5.787868	6

Appendix B: Aggregate Base-Level Inventory Requirement

1270011838987	4800	1	0.011111	0.6885	1	1.05392	2	1.843162	2
1660011374105	4800	3	0.033333	1.3333	2	1.96633	2	3.333333	4
1680001238167	4800	2	0.022222	1.0387	2	1.55556	2	2.671712	3
1680010325251	4800	6	0.066667	2.0809	3	2.97607	3	4.909307	5
1680010652355	4800	8	0.088889	2.5219	3	3.55556	4	5.787868	6
1680011390166	4800	1	0.011111	0.6885	1	1.05392	2	1.843162	2
1680011572424	4800	4	0.044444	1.5991	2	2.33006	3	3.908546	4
1680011596742	4800	20	0.222222	4.8042	5	6.43859	7	9.968189	10
5821012287058	4800	22	0.244444	5.1525	6	6.86661	7	10.56848	11
5826010121938	4800	13	0.144444	3.5261	4	4.84379	5	7.689442	8
5826010603893	4800	2	0.022222	1.0387	2	1.55556	2	2.671712	3
5836010512886	4800	8	0.088889	2.5219	3	3.55556	4	5.787868	6
5841010588862	4800	4	0.044444	1.5991	2	2.33006	3	3.908546	4
5841011007363	4800	7	0.077778	2.3053	3	3.27222	4	5.360353	6
5865011003768	4800	2	0.022222	1.0387	2	1.55556	2	2.671712	3
5865012112335	4800	2	0.022222	1.0387	2	1.55556	2	2.671712	3
5895001602198	4800	4	0.044444	1.5991	2	2.33006	3	3.908546	4
5895002625018	4800	3	0.033333	1.3333	2	1.96633	2	3.333333	4
5895003278781	4800	2	0.022222	1.0387	2	1.55556	2	2.671712	3
5895003409619	4800	1	0.011111	0.6885	1	1.05392	2	1.843162	2
5895010444987	4800	2	0.022222	1.0387	2	1.55556	2	2.671712	3
5895010959593	4800	4	0.044444	1.5991	2	2.33006	3	3.908546	4
5895011126380	4800	17	0.188889	4.2694	5	5.77619	6	9.030317	10
5895011736012	4800	4	0.044444	1.5991	2	2.33006	3	3.908546	4
5895012728047	4800	11	0.122222	3.1371	4	4.34917	5	6.966785	7
5895012731990	4800	7	0.077778	2.3053	3	3.27222	4	5.360353	6
5895013296324	4800	27	0.3	6	6	7.89898	8	12	12
5930011729448	4800	6	0.066667	2.0809	3	2.97607	3	4.909307	5
5955010032850	4800	2	0.022222	1.0387	2	1.55556	2	2.671712	3
5955010226196	4800	2	0.022222	1.0387	2	1.55556	2	2.671712	3
6110005390411	4800	2	0.022222	1.0387	2	1.55556	2	2.671712	3
6110010498639	4800	5	0.055556	1.8466	2	2.66374	3	4.428539	5
6130010548810	4800	1	0.011111	0.6885	1	1.05392	2	1.843162	2
6340003327300	4800	2	0.022222	1.0387	2	1.55556	2	2.671712	3
6605001491134	4800	29	0.322222	6.3313	7	8.2994	9	12.5496	13
6605003142536	4800	2	0.022222	1.0387	2	1.55556	2	2.671712	3
6605010424831	4800	12	0.133333	3.3333	4	4.59932	5	7.333333	8
6605010903390	4800	6	0.066667	2.0809	3	2.97607	3	4.909307	5
6605010940775	4800	30	0.333333	6.4956	7	8.49731	9	12.82017	13
6610000000122	4800	6	0.066667	2.0809	3	2.97607	3	4.909307	5
6610001342259	4800	12	0.133333	3.3333	4	4.59932	5	7.333333	8
6610001342260	4800	8	0.088889	2.5219	3	3.55556	4	5.787868	6
6610002963574	4800	10	0.111111	2.9369	3	4.09254	5	6.588337	7
6610003142480	4800	4	0.044444	1.5991	2	2.33006	3	3.908546	4
6610003616686	4800	4	0.044444	1.5991	2	2.33006	3	3.908546	4
6610005357722	4800	2	0.022222	1.0387	2	1.55556	2	2.671712	3
6610010379144	4800	7	0.077778	2.3053	3	3.27222	4	5.360353	6
6610010754745	4800	1	0.011111	0.6885	1	1.05392	2	1.843162	2
6610011676617	4800	2	0.022222	1.0387	2	1.55556	2	2.671712	3
6610012238179	4800	1	0.011111	0.6885	1	1.05392	2	1.843162	2

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6615001377514	4800	18	0.2	4.4495	5	6	6	9.348469	10
6615002624314	4800	3	0.033333	1.3333	2	1.96633	2	3.333333	4
6615003036728	4800	2	0.022222	1.0387	2	1.55556	2	2.671712	3
6615010154794	4800	10	0.111111	2.9369	3	4.09254	5	6.588337	7
6615010214234	4800	2	0.022222	1.0387	2	1.55556	2	2.671712	3
6615010950962	4800	8	0.088889	2.5219	3	3.55556	4	5.787868	6
6615011484182	4800	10	0.111111	2.9369	3	4.09254	5	6.588337	7
6620001249515	4800	6	0.066667	2.0809	3	2.97607	3	4.909307	5
6620001487306	4800	2	0.022222	1.0387	2	1.55556	2	2.671712	3
6625008954446	4800	2	0.022222	1.0387	2	1.55556	2	2.671712	3
6645000763050	4800	3	0.033333	1.3333	2	1.96633	2	3.333333	4
6680011033419	4800	5	0.055556	1.8466	2	2.66374	3	4.428539	5
6680011066215	4800	2	0.022222	1.0387	2	1.55556	2	2.671712	3
6685010482889	4800	21	0.233333	4.9791	5	6.65383	7	10.27059	11
1260012511150	4803	1	0.011111	0.6885	1	1.05392	2	1.843162	2
1270010940527	4803	2	0.022222	1.0387	2	1.55556	2	2.671712	3
1270011126862	4803	14	0.155556	3.7158	4	5.08322	6	8.036296	9
1270012330011	4803	4	0.044444	1.5991	2	2.33006	3	3.908546	4
1270012383662	4803	7	0.077778	2.3053	3	3.27222	4	5.360353	6
1270013308895	4803	1	0.011111	0.6885	1	1.05392	2	1.843162	2
1290013765449	4803	6	0.066667	2.0809	3	2.97607	3	4.909307	5
4920011548820	4803	2	0.022222	1.0387	2	1.55556	2	2.671712	3
5821010569617	4803	1	0.011111	0.6885	1	1.05392	2	1.843162	2
5821010621019	4803	2	0.022222	1.0387	2	1.55556	2	2.671712	3
5821010704695	4803	5	0.055556	1.8466	2	2.66374	3	4.428539	5
5826010121919	4803	1	0.011111	0.6885	1	1.05392	2	1.843162	2
5826010121938	4803	6	0.066667	2.0809	3	2.97607	3	4.909307	5
5826010124864	4803	2	0.022222	1.0387	2	1.55556	2	2.671712	3
5826010409798	4803	2	0.022222	1.0387	2	1.55556	2	2.671712	3
5831000611577	4803	3	0.033333	1.3333	2	1.96633	2	3.333333	4
5831005235328	4803	6	0.066667	2.0809	3	2.97607	3	4.909307	5
5865011106043	4803	2	0.022222	1.0387	2	1.55556	2	2.671712	3
5865013249103	4803	2	0.022222	1.0387	2	1.55556	2	2.671712	3
5895011074586	4803	4	0.044444	1.5991	2	2.33006	3	3.908546	4
5895011126380	4803	14	0.155556	3.7158	4	5.08322	6	8.036296	9
5895011549125	4803	4	0.044444	1.5991	2	2.33006	3	3.908546	4
5895011631762	4803	2	0.022222	1.0387	2	1.55556	2	2.671712	3
5895012422033	4803	1	0.011111	0.6885	1	1.05392	2	1.843162	2
5895013102157	4803	4	0.044444	1.5991	2	2.33006	3	3.908546	4
5895013558414	4803	2	0.022222	1.0387	2	1.55556	2	2.671712	3
5945011709363	4803	4	0.044444	1.5991	2	2.33006	3	3.908546	4
5985012122950	4803	2	0.022222	1.0387	2	1.55556	2	2.671712	3
5998011896233	4803	4	0.044444	1.5991	2	2.33006	3	3.908546	4
5998013227746	4803	3	0.033333	1.3333	2	1.96633	2	3.333333	4
6605010987557	4803	3	0.033333	1.3333	2	1.96633	2	3.333333	4
6605993708249	4803	13	0.144444	3.5261	4	4.84379	5	7.689442	8
6610010996186	4803	6	0.066667	2.0809	3	2.97607	3	4.909307	5
6610013081859	4803	1	0.011111	0.6885	1	1.05392	2	1.843162	2
6615005679423	4803	2	0.022222	1.0387	2	1.55556	2	2.671712	3

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6615005759682	4803	4	0.044444	1.5991	2	2.33006	3	3.908546	4
6615010358996	4803	2	0.022222	1.0387	2	1.55556	2	2.671712	3
6615010427834	4803	3	0.033333	1.3333	2	1.96633	2	3.333333	4
6615010427835	4803	1	0.011111	0.6885	1	1.05392	2	1.843162	2
6615011273160	4803	1	0.011111	0.6885	1	1.05392	2	1.843162	2
6615013169054	4803	10	0.111111	2.9369	3	4.09254	5	6.588337	7
6615013517337	4803	3	0.033333	1.3333	2	1.96633	2	3.333333	4
6625010508119	4803	2	0.022222	1.0387	2	1.55556	2	2.671712	3
6625011938861	4803	7	0.077778	2.3053	3	3.27222	4	5.360353	6
6680010928262	4803	8	0.088889	2.5219	3	3.55556	4	5.787868	6
6695012013554	4803	2	0.022222	1.0387	2	1.55556	2	2.671712	3
6695013434006	4803	8	0.088889	2.5219	3	3.55556	4	5.787868	6
5810000613386	4810	2	0.022222	1.0387	2	1.55556	2	2.671712	3
5810010508115	4810	4	0.044444	1.5991	2	2.33006	3	3.908546	4
5821010676728	4810	4	0.044444	1.5991	2	2.33006	3	3.908546	4
5826001345973	4810	1	0.011111	0.6885	1	1.05392	2	1.843162	2
5826002411011	4810	6	0.066667	2.0809	3	2.97607	3	4.909307	5
5826005051873	4810	2	0.022222	1.0387	2	1.55556	2	2.671712	3
5826005052222	4810	1	0.011111	0.6885	1	1.05392	2	1.843162	2
5826005053094	4810	2	0.022222	1.0387	2	1.55556	2	2.671712	3
5826010124864	4810	2	0.022222	1.0387	2	1.55556	2	2.671712	3
5841008047159	4810	1	0.011111	0.6885	1	1.05392	2	1.843162	2
5841010568647	4810	3	0.033333	1.3333	2	1.96633	2	3.333333	4
5841010918929	4810	4	0.044444	1.5991	2	2.33006	3	3.908546	4
5841012827090	4810	2	0.022222	1.0387	2	1.55556	2	2.671712	3
5841012827091	4810	4	0.044444	1.5991	2	2.33006	3	3.908546	4
5841012827093	4810	4	0.044444	1.5991	2	2.33006	3	3.908546	4
5895005071381	4810	2	0.022222	1.0387	2	1.55556	2	2.671712	3
5895010537839	4810	1	0.011111	0.6885	1	1.05392	2	1.843162	2
5985011041424	4810	2	0.022222	1.0387	2	1.55556	2	2.671712	3
5985011515848	4810	8	0.088889	2.5219	3	3.55556	4	5.787868	6
5985012827891	4810	1	0.011111	0.6885	1	1.05392	2	1.843162	2
6130010568665	4810	1	0.011111	0.6885	1	1.05392	2	1.843162	2
6605005012379	4810	1	0.011111	0.6885	1	1.05392	2	1.843162	2
6615005370580	4810	2	0.022222	1.0387	2	1.55556	2	2.671712	3
6615010181635	4810	2	0.022222	1.0387	2	1.55556	2	2.671712	3
6615012477292	4810	4	0.044444	1.5991	2	2.33006	3	3.908546	4
6620005154541	4810	2	0.022222	1.0387	2	1.55556	2	2.671712	3
6625008954446	4810	1	0.011111	0.6885	1	1.05392	2	1.843162	2
6645001506526	4810	2	0.022222	1.0387	2	1.55556	2	2.671712	3
1270010469884	4819	14	0.155556	3.7158	4	5.08322	6	8.036296	9
1270011022962	4819	2	0.022222	1.0387	2	1.55556	2	2.671712	3
1280010423952	4819	2	0.022222	1.0387	2	1.55556	2	2.671712	3
1280013200787	4819	13	0.144444	3.5261	4	4.84379	5	7.689442	8
1630010182004	4819	4	0.044444	1.5991	2	2.33006	3	3.908546	4
1660011374105	4819	1	0.011111	0.6885	1	1.05392	2	1.843162	2
1680010325251	4819	2	0.022222	1.0387	2	1.55556	2	2.671712	3
1680010652355	4819	6	0.066667	2.0809	3	2.97607	3	4.909307	5

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1680011572424	4819	1	0.011111	0.6885	1	1.05392	2	1.843162	2
1680011596742	4819	12	0.133333	3.3333	4	4.59932	5	7.333333	8
5810010269624	4819	2	0.022222	1.0387	2	1.55556	2	2.671712	3
5810010508115	4819	2	0.022222	1.0387	2	1.55556	2	2.671712	3
5821011369512	4819	1	0.011111	0.6885	1	1.05392	2	1.843162	2
5821012287058	4819	16	0.177778	4.0872	5	5.54901	6	8.705981	9
5826010121938	4819	12	0.133333	3.3333	4	4.59932	5	7.333333	8
5826010211744	4819	8	0.088889	2.5219	3	3.55556	4	5.787868	6
5826010329930	4819	2	0.022222	1.0387	2	1.55556	2	2.671712	3
5826010603893	4819	6	0.066667	2.0809	3	2.97607	3	4.909307	5
5836010512886	4819	7	0.077778	2.3053	3	3.27222	4	5.360353	6
5865010891745	4819	2	0.022222	1.0387	2	1.55556	2	2.671712	3
5865011003768	4819	2	0.022222	1.0387	2	1.55556	2	2.671712	3
5865011003770	4819	4	0.044444	1.5991	2	2.33006	3	3.908546	4
5865011449320	4819	4	0.044444	1.5991	2	2.33006	3	3.908546	4
5895001491319	4819	2	0.022222	1.0387	2	1.55556	2	2.671712	3
5895001602198	4819	5	0.055556	1.8466	2	2.66374	3	4.428539	5
5895002625018	4819	3	0.033333	1.3333	2	1.96633	2	3.333333	4
5895003278781	4819	8	0.088889	2.5219	3	3.55556	4	5.787868	6
5895003409619	4819	2	0.022222	1.0387	2	1.55556	2	2.671712	3
5895010444987	4819	2	0.022222	1.0387	2	1.55556	2	2.671712	3
5895010891808	4819	2	0.022222	1.0387	2	1.55556	2	2.671712	3
5895010959593	4819	5	0.055556	1.8466	2	2.66374	3	4.428539	5
5895011126380	4819	16	0.177778	4.0872	5	5.54901	6	8.705981	9
5895011354647	4819	2	0.022222	1.0387	2	1.55556	2	2.671712	3
5895012728047	4819	24	0.266667	5.4951	6	7.28547	8	11.15195	12
5895012731990	4819	6	0.066667	2.0809	3	2.97607	3	4.909307	5
5895013296324	4819	7	0.077778	2.3053	3	3.27222	4	5.360353	6
6110005390411	4819	3	0.033333	1.3333	2	1.96633	2	3.333333	4
6110010498639	4819	2	0.022222	1.0387	2	1.55556	2	2.671712	3
6130010548810	4819	4	0.044444	1.5991	2	2.33006	3	3.908546	4
6220010485183	4819	2	0.022222	1.0387	2	1.55556	2	2.671712	3
6320001342251	4819	1	0.011111	0.6885	1	1.05392	2	1.843162	2
6605001491134	4819	10	0.111111	2.9369	3	4.09254	5	6.588337	7
6605010424831	4819	38	0.422222	7.7812	8	10.0341	11	14.8993	15
6605010903390	4819	2	0.022222	1.0387	2	1.55556	2	2.671712	3
6605010940775	4819	19	0.211111	4.6277	5	6.22072	7	9.660946	10
6610000000122	4819	6	0.066667	2.0809	3	2.97607	3	4.909307	5
6610001342259	4819	9	0.1	2.7321	3	3.82843	4	6.196152	7
6610001342260	4819	6	0.066667	2.0809	3	2.97607	3	4.909307	5
6610002963574	4819	6	0.066667	2.0809	3	2.97607	3	4.909307	5
6610003142480	4819	11	0.122222	3.1371	4	4.34917	5	6.966785	7
6610003293495	4819	8	0.088889	2.5219	3	3.55556	4	5.787868	6
6610003494184	4819	11	0.122222	3.1371	4	4.34917	5	6.966785	7
6610003616686	4819	4	0.044444	1.5991	2	2.33006	3	3.908546	4
6610005357722	4819	17	0.188889	4.2694	5	5.77619	6	9.030317	10
6610007198446	4819	4	0.044444	1.5991	2	2.33006	3	3.908546	4
6610010379144	4819	12	0.133333	3.3333	4	4.59932	5	7.333333	8
6610011676617	4819	3	0.033333	1.3333	2	1.96633	2	3.333333	4
6615001377514	4819	4	0.044444	1.5991	2	2.33006	3	3.908546	4

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6615002624314	4819	1	0.011111	0.6885	1	1.05392	2	1.843162	2
6615003036730	4819	2	0.022222	1.0387	2	1.55556	2	2.671712	3
6615005759682	4819	1	0.011111	0.6885	1	1.05392	2	1.843162	2
6615009732218	4819	4	0.044444	1.5991	2	2.33006	3	3.908546	4
6615010154794	4819	2	0.022222	1.0387	2	1.55556	2	2.671712	3
6615010844995	4819	1	0.011111	0.6885	1	1.05392	2	1.843162	2
6615013517337	4819	2	0.022222	1.0387	2	1.55556	2	2.671712	3
6620001249515	4819	5	0.055556	1.8466	2	2.66374	3	4.428539	5
6645009508599	4819	1	0.011111	0.6885	1	1.05392	2	1.843162	2
6680011033419	4819	3	0.033333	1.3333	2	1.96633	2	3.333333	4
6680011066215	4819	6	0.066667	2.0809	3	2.97607	3	4.909307	5
6685003336763	4819	1	0.011111	0.6885	1	1.05392	2	1.843162	2
6685010482889	4819	29	0.322222	6.3313	7	8.2994	9	12.5496	13
1260012511150	4830	3	0.033333	1.3333	2	1.96633	2	3.333333	4
1270012330011	4830	15	0.166667	3.9027	4	5.31815	6	8.374871	9
1270012383662	4830	11	0.122222	3.1371	4	4.34917	5	6.966785	7
1270012566538	4830	8	0.088889	2.5219	3	3.55556	4	5.787868	6
1270013093077	4830	1	0.011111	0.6885	1	1.05392	2	1.843162	2
1270013333608	4830	4	0.044444	1.5991	2	2.33006	3	3.908546	4
1290012978068	4830	2	0.022222	1.0387	2	1.55556	2	2.671712	3
4920011548792	4830	3	0.033333	1.3333	2	1.96633	2	3.333333	4
5810010508115	4830	1	0.011111	0.6885	1	1.05392	2	1.843162	2
5810011778545	4830	2	0.022222	1.0387	2	1.55556	2	2.671712	3
5826002411011	4830	2	0.022222	1.0387	2	1.55556	2	2.671712	3
5826005050793	4830	2	0.022222	1.0387	2	1.55556	2	2.671712	3
5826005051873	4830	2	0.022222	1.0387	2	1.55556	2	2.671712	3
5826005356629	4830	2	0.022222	1.0387	2	1.55556	2	2.671712	3
5826010121938	4830	4	0.044444	1.5991	2	2.33006	3	3.908546	4
5826010409798	4830	5	0.055556	1.8466	2	2.66374	3	4.428539	5
5831009523454	4830	2	0.022222	1.0387	2	1.55556	2	2.671712	3
5836010512886	4830	3	0.033333	1.3333	2	1.96633	2	3.333333	4
5841009743254	4830	3	0.033333	1.3333	2	1.96633	2	3.333333	4
5841010537872	4830	1	0.011111	0.6885	1	1.05392	2	1.843162	2
5841010693756	4830	2	0.022222	1.0387	2	1.55556	2	2.671712	3
5841011423785	4830	2	0.022222	1.0387	2	1.55556	2	2.671712	3
5841011435912	4830	8	0.088889	2.5219	3	3.55556	4	5.787868	6
5841012029769	4830	2	0.022222	1.0387	2	1.55556	2	2.671712	3
5841012827090	4830	6	0.066667	2.0809	3	2.97607	3	4.909307	5
5841012827093	4830	12	0.133333	3.3333	4	4.59932	5	7.333333	8
5841012830065	4830	1	0.011111	0.6885	1	1.05392	2	1.843162	2
5865010535396	4830	1	0.011111	0.6885	1	1.05392	2	1.843162	2
5865010805675	4830	2	0.022222	1.0387	2	1.55556	2	2.671712	3
5865011106043	4830	4	0.044444	1.5991	2	2.33006	3	3.908546	4
5865013249103	4830	10	0.111111	2.9369	3	4.09254	5	6.588337	7
5895001602198	4830	6	0.066667	2.0809	3	2.97607	3	4.909307	5
5895005071381	4830	1	0.011111	0.6885	1	1.05392	2	1.843162	2
5895005391911	4830	2	0.022222	1.0387	2	1.55556	2	2.671712	3
5895011074586	4830	2	0.022222	1.0387	2	1.55556	2	2.671712	3
5895011126380	4830	21	0.233333	4.9791	5	6.65383	7	10.27059	11

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5895011435443	4830	4	0.044444	1.5991	2	2.33006	3	3.908546	4
5895011549125	4830	2	0.022222	1.0387	2	1.55556	2	2.671712	3
5895012422033	4830	4	0.044444	1.5991	2	2.33006	3	3.908546	4
5895013102157	4830	14	0.155556	3.7158	4	5.08322	6	8.036296	9
5945011709363	4830	9	0.1	2.7321	3	3.82843	4	6.196152	7
5985012122950	4830	6	0.066667	2.0809	3	2.97607	3	4.909307	5
5985012827891	4830	2	0.022222	1.0387	2	1.55556	2	2.671712	3
5998011896233	4830	4	0.044444	1.5991	2	2.33006	3	3.908546	4
5998013227746	4830	1	0.011111	0.6885	1	1.05392	2	1.843162	2
5999010803978	4830	4	0.044444	1.5991	2	2.33006	3	3.908546	4
5999012644636	4830	2	0.022222	1.0387	2	1.55556	2	2.671712	3
6130010568665	4830	3	0.033333	1.3333	2	1.96633	2	3.333333	4
6605005012379	4830	4	0.044444	1.5991	2	2.33006	3	3.908546	4
6605005659797	4830	3	0.033333	1.3333	2	1.96633	2	3.333333	4
6610010996186	4830	4	0.044444	1.5991	2	2.33006	3	3.908546	4
6610013081859	4830	8	0.088889	2.5219	3	3.55556	4	5.787868	6
6615010427834	4830	1	0.011111	0.6885	1	1.05392	2	1.843162	2
6615010427835	4830	1	0.011111	0.6885	1	1.05392	2	1.843162	2
6615013619746	4830	14	0.155556	3.7158	4	5.08322	6	8.036296	9
6620005154541	4830	5	0.055556	1.8466	2	2.66374	3	4.428539	5
6625011146771	4830	3	0.033333	1.3333	2	1.96633	2	3.333333	4
6625011938861	4830	1	0.011111	0.6885	1	1.05392	2	1.843162	2
6680010928262	4830	2	0.022222	1.0387	2	1.55556	2	2.671712	3
7025011963702	4830	8	0.088889	2.5219	3	3.55556	4	5.787868	6
1260012511150	4852	4	0.044444	1.5991	2	2.33006	3	3.908546	4
1270010405948	4852	2	0.022222	1.0387	2	1.55556	2	2.671712	3
1270010469884	4852	4	0.044444	1.5991	2	2.33006	3	3.908546	4
1270010940527	4852	3	0.033333	1.3333	2	1.96633	2	3.333333	4
1270011126862	4852	1	0.011111	0.6885	1	1.05392	2	1.843162	2
1270012319800	4852	10	0.111111	2.9369	3	4.09254	5	6.588337	7
1270012330011	4852	27	0.3	6	6	7.89898	8	12	12
1270012352370	4852	1	0.011111	0.6885	1	1.05392	2	1.843162	2
1270012383662	4852	18	0.2	4.4495	5	6	6	9.348469	10
1270012566538	4852	6	0.066667	2.0809	3	2.97607	3	4.909307	5
1270012684611	4852	2	0.022222	1.0387	2	1.55556	2	2.671712	3
1270013093077	4852	2	0.022222	1.0387	2	1.55556	2	2.671712	3
1270013333608	4852	5	0.055556	1.8466	2	2.66374	3	4.428539	5
1270013624867	4852	1	0.011111	0.6885	1	1.05392	2	1.843162	2
1270992512706	4852	3	0.033333	1.3333	2	1.96633	2	3.333333	4
1290012403376	4852	1	0.011111	0.6885	1	1.05392	2	1.843162	2
1290013223711	4852	1	0.011111	0.6885	1	1.05392	2	1.843162	2
1290013765449	4852	1	0.011111	0.6885	1	1.05392	2	1.843162	2
1660011374105	4852	2	0.022222	1.0387	2	1.55556	2	2.671712	3
1680010652355	4852	2	0.022222	1.0387	2	1.55556	2	2.671712	3
1680011390166	4852	2	0.022222	1.0387	2	1.55556	2	2.671712	3
1680011596742	4852	2	0.022222	1.0387	2	1.55556	2	2.671712	3
5810000613386	4852	10	0.111111	2.9369	3	4.09254	5	6.588337	7
5810004490154	4852	4	0.044444	1.5991	2	2.33006	3	3.908546	4
5810010269624	4852	2	0.022222	1.0387	2	1.55556	2	2.671712	3

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5810010508115	4852	2	0.022222	1.0387	2	1.55556	2	2.671712	3
5810010509968	4852	2	0.022222	1.0387	2	1.55556	2	2.671712	3
5810012737820	4852	2	0.022222	1.0387	2	1.55556	2	2.671712	3
5821010031336	4852	1	0.011111	0.6885	1	1.05392	2	1.843162	2
5821010569616	4852	3	0.033333	1.3333	2	1.96633	2	3.333333	4
5821010569617	4852	3	0.033333	1.3333	2	1.96633	2	3.333333	4
5821010621019	4852	2	0.022222	1.0387	2	1.55556	2	2.671712	3
5821011015333	4852	5	0.055556	1.8466	2	2.66374	3	4.428539	5
5821012272153	4852	2	0.022222	1.0387	2	1.55556	2	2.671712	3
5821012287058	4852	18	0.2	4.4495	5	6	6	9.348469	10
5821012866543	4852	1	0.011111	0.6885	1	1.05392	2	1.843162	2
5826010121938	4852	2	0.022222	1.0387	2	1.55556	2	2.671712	3
5836010512886	4852	8	0.088889	2.5219	3	3.55556	4	5.787868	6
5841010588862	4852	2	0.022222	1.0387	2	1.55556	2	2.671712	3
5855013207640	4852	1	0.011111	0.6885	1	1.05392	2	1.843162	2
5865011003768	4852	2	0.022222	1.0387	2	1.55556	2	2.671712	3
5865011003770	4852	2	0.022222	1.0387	2	1.55556	2	2.671712	3
5865011449320	4852	6	0.066667	2.0809	3	2.97607	3	4.909307	5
5865012556889	4852	2	0.022222	1.0387	2	1.55556	2	2.671712	3
5865013249103	4852	2	0.022222	1.0387	2	1.55556	2	2.671712	3
5895003278781	4852	2	0.022222	1.0387	2	1.55556	2	2.671712	3
5895008100189	4852	3	0.033333	1.3333	2	1.96633	2	3.333333	4
5895010959593	4852	1	0.011111	0.6885	1	1.05392	2	1.843162	2
5895011074586	4852	3	0.033333	1.3333	2	1.96633	2	3.333333	4
5895011126380	4852	29	0.322222	6.3313	7	8.2994	9	12.5496	13
5895011349225	4852	2	0.022222	1.0387	2	1.55556	2	2.671712	3
5895012422033	4852	1	0.011111	0.6885	1	1.05392	2	1.843162	2
5895012728047	4852	7	0.077778	2.3053	3	3.27222	4	5.360353	6
5895013296324	4852	1	0.011111	0.6885	1	1.05392	2	1.843162	2
5930010920386	4852	13	0.144444	3.5261	4	4.84379	5	7.689442	8
5930011729448	4852	6	0.066667	2.0809	3	2.97607	3	4.909307	5
5945011709363	4852	2	0.022222	1.0387	2	1.55556	2	2.671712	3
5985012122950	4852	6	0.066667	2.0809	3	2.97607	3	4.909307	5
5985012827891	4852	1	0.011111	0.6885	1	1.05392	2	1.843162	2
5998011480712	4852	1	0.011111	0.6885	1	1.05392	2	1.843162	2
5998011896233	4852	5	0.055556	1.8466	2	2.66374	3	4.428539	5
6130010548810	4852	4	0.044444	1.5991	2	2.33006	3	3.908546	4
6150012505539	4852	1	0.011111	0.6885	1	1.05392	2	1.843162	2
6340003327300	4852	2	0.022222	1.0387	2	1.55556	2	2.671712	3
6605001491134	4852	8	0.088889	2.5219	3	3.55556	4	5.787868	6
6605003142536	4852	2	0.022222	1.0387	2	1.55556	2	2.671712	3
6605010424831	4852	5	0.055556	1.8466	2	2.66374	3	4.428539	5
6605010903390	4852	3	0.033333	1.3333	2	1.96633	2	3.333333	4
6605010940775	4852	9	0.1	2.7321	3	3.82843	4	6.196152	7
6605011081329	4852	2	0.022222	1.0387	2	1.55556	2	2.671712	3
6610000000122	4852	4	0.044444	1.5991	2	2.33006	3	3.908546	4
6610001342259	4852	6	0.066667	2.0809	3	2.97607	3	4.909307	5
6610001600905	4852	2	0.022222	1.0387	2	1.55556	2	2.671712	3
6610003142480	4852	2	0.022222	1.0387	2	1.55556	2	2.671712	3
6610003293495	4852	1	0.011111	0.6885	1	1.05392	2	1.843162	2

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6610003494184	4852	19	0.211111	4.6277	5	6.22072	7	9.660946	10
6610005357722	4852	8	0.088889	2.5219	3	3.55556	4	5.787868	6
6610007198446	4852	4	0.044444	1.5991	2	2.33006	3	3.908546	4
6610010750673	4852	1	0.011111	0.6885	1	1.05392	2	1.843162	2
6610010996186	4852	4	0.044444	1.5991	2	2.33006	3	3.908546	4
6610012238179	4852	2	0.022222	1.0387	2	1.55556	2	2.671712	3
6610013081859	4852	13	0.144444	3.5261	4	4.84379	5	7.689442	8
6615001377514	4852	2	0.022222	1.0387	2	1.55556	2	2.671712	3
6615002624314	4852	4	0.044444	1.5991	2	2.33006	3	3.908546	4
6615003036728	4852	2	0.022222	1.0387	2	1.55556	2	2.671712	3
6615005759682	4852	2	0.022222	1.0387	2	1.55556	2	2.671712	3
6615010154794	4852	2	0.022222	1.0387	2	1.55556	2	2.671712	3
6615010844995	4852	2	0.022222	1.0387	2	1.55556	2	2.671712	3
6615011484182	4852	1	0.011111	0.6885	1	1.05392	2	1.843162	2
6615013167226	4852	1	0.011111	0.6885	1	1.05392	2	1.843162	2
6615013169054	4852	1	0.011111	0.6885	1	1.05392	2	1.843162	2
6615013246374	4852	2	0.022222	1.0387	2	1.55556	2	2.671712	3
6615013517337	4852	2	0.022222	1.0387	2	1.55556	2	2.671712	3
6615013619746	4852	11	0.122222	3.1371	4	4.34917	5	6.966785	7
6620012652887	4852	1	0.011111	0.6885	1	1.05392	2	1.843162	2
6625011938861	4852	3	0.033333	1.3333	2	1.96633	2	3.333333	4
6645000763050	4852	3	0.033333	1.3333	2	1.96633	2	3.333333	4
6645001506526	4852	2	0.022222	1.0387	2	1.55556	2	2.671712	3
6680010928262	4852	6	0.066667	2.0809	3	2.97607	3	4.909307	5
6680011033419	4852	4	0.044444	1.5991	2	2.33006	3	3.908546	4
6685010482889	4852	2	0.022222	1.0387	2	1.55556	2	2.671712	3
6695012013554	4852	1	0.011111	0.6885	1	1.05392	2	1.843162	2
6695013434006	4852	2	0.022222	1.0387	2	1.55556	2	2.671712	3
7025010933267	4852	2	0.022222	1.0387	2	1.55556	2	2.671712	3
7025011726541	4852	2	0.022222	1.0387	2	1.55556	2	2.671712	3
1260012372273	4855	4	0.044444	1.5991	2	2.33006	3	3.908546	4
1270001114649	4855	2	0.022222	1.0387	2	1.55556	2	2.671712	3
1270001358343	4855	3	0.033333	1.3333	2	1.96633	2	3.333333	4
1270004512162	4855	12	0.133333	3.3333	4	4.59932	5	7.333333	8
1270008694784	4855	2	0.022222	1.0387	2	1.55556	2	2.671712	3
1270010887589	4855	2	0.022222	1.0387	2	1.55556	2	2.671712	3
1270011002302	4855	6	0.066667	2.0809	3	2.97607	3	4.909307	5
1270012766449	4855	5	0.055556	1.8466	2	2.66374	3	4.428539	5
1280012850599	4855	7	0.077778	2.3053	3	3.27222	4	5.360353	6
1290011103806	4855	6	0.066667	2.0809	3	2.97607	3	4.909307	5
5810010509968	4855	6	0.066667	2.0809	3	2.97607	3	4.909307	5
5810012737820	4855	2	0.022222	1.0387	2	1.55556	2	2.671712	3
5821010276657	4855	1	0.011111	0.6885	1	1.05392	2	1.843162	2
5821011137509	4855	4	0.044444	1.5991	2	2.33006	3	3.908546	4
5821011137510	4855	8	0.088889	2.5219	3	3.55556	4	5.787868	6
5821011659342	4855	2	0.022222	1.0387	2	1.55556	2	2.671712	3
5821012287058	4855	14	0.155556	3.7158	4	5.08322	6	8.036296	9
5821012587579	4855	5	0.055556	1.8466	2	2.66374	3	4.428539	5
5826001345979	4855	1	0.011111	0.6885	1	1.05392	2	1.843162	2

Appendix B: Aggregate Base-Level Inventory Requirement

5826002266029	4855	2	0.022222	1.0387	2	1.55556	2	2.671712	3
5826002266030	4855	2	0.022222	1.0387	2	1.55556	2	2.671712	3
5826010121938	4855	17	0.188889	4.2694	5	5.77619	6	9.030317	10
5831001025583	4855	10	0.111111	2.9369	3	4.09254	5	6.588337	7
5831005391714	4855	2	0.022222	1.0387	2	1.55556	2	2.671712	3
5831012221891	4855	4	0.044444	1.5991	2	2.33006	3	3.908546	4
5841000977252	4855	24	0.266667	5.4951	6	7.28547	8	11.15195	12
5841004699698	4855	4	0.044444	1.5991	2	2.33006	3	3.908546	4
5841010568647	4855	2	0.022222	1.0387	2	1.55556	2	2.671712	3
5841010883039	4855	8	0.088889	2.5219	3	3.55556	4	5.787868	6
5841011027549	4855	2	0.022222	1.0387	2	1.55556	2	2.671712	3
5841012062071	4855	4	0.044444	1.5991	2	2.33006	3	3.908546	4
5841012204422	4855	3	0.033333	1.3333	2	1.96633	2	3.333333	4
5841012412292	4855	9	0.1	2.7321	3	3.82843	4	6.196152	7
5841012860706	4855	19	0.211111	4.6277	5	6.22072	7	9.660946	10
5841012955125	4855	1	0.011111	0.6885	1	1.05392	2	1.843162	2
5841013255058	4855	4	0.044444	1.5991	2	2.33006	3	3.908546	4
5841013396857	4855	30	0.333333	6.4956	7	8.49731	9	12.82017	13
5865011086511	4855	4	0.044444	1.5991	2	2.33006	3	3.908546	4
5865013054887	4855	2	0.022222	1.0387	2	1.55556	2	2.671712	3
5895000894522	4855	19	0.211111	4.6277	5	6.22072	7	9.660946	10
5895009001196	4855	1	0.011111	0.6885	1	1.05392	2	1.843162	2
5895010550392	4855	5	0.055556	1.8466	2	2.66374	3	4.428539	5
5895011479137	4855	8	0.088889	2.5219	3	3.55556	4	5.787868	6
5895011488852	4855	2	0.022222	1.0387	2	1.55556	2	2.671712	3
5895012090144	4855	11	0.122222	3.1371	4	4.34917	5	6.966785	7
5895012410075	4855	4	0.044444	1.5991	2	2.33006	3	3.908546	4
5915010558592	4855	6	0.066667	2.0809	3	2.97607	3	4.909307	5
5960012372335	4855	6	0.066667	2.0809	3	2.97607	3	4.909307	5
5985003495877	4855	16	0.177778	4.0872	5	5.54901	6	8.705981	9
5985008840704	4855	12	0.133333	3.3333	4	4.59932	5	7.333333	8
5985012199437	4855	2	0.022222	1.0387	2	1.55556	2	2.671712	3
5985013194675	4855	2	0.022222	1.0387	2	1.55556	2	2.671712	3
6605010972426	4855	8	0.088889	2.5219	3	3.55556	4	5.787868	6
6605010976221	4855	12	0.133333	3.3333	4	4.59932	5	7.333333	8
6610004257661	4855	5	0.055556	1.8466	2	2.66374	3	4.428539	5
6610004914092	4855	3	0.033333	1.3333	2	1.96633	2	3.333333	4
6610010200131	4855	37	0.411111	7.623	8	9.846	10	14.64676	15
6610010215070	4855	11	0.122222	3.1371	4	4.34917	5	6.966785	7
6615004056460	4855	15	0.166667	3.9027	4	5.31815	6	8.374871	9
6615004809422	4855	2	0.022222	1.0387	2	1.55556	2	2.671712	3
6615004985210	4855	3	0.033333	1.3333	2	1.96633	2	3.333333	4
6625004713174	4855	2	0.022222	1.0387	2	1.55556	2	2.671712	3
1270010801059	4877	2	0.022222	1.0387	2	1.55556	2	2.671712	3
1270010940527	4877	1	0.011111	0.6885	1	1.05392	2	1.843162	2
1270011126862	4877	4	0.044444	1.5991	2	2.33006	3	3.908546	4
4920011548820	4877	3	0.033333	1.3333	2	1.96633	2	3.333333	4
5810004490154	4877	2	0.022222	1.0387	2	1.55556	2	2.671712	3
5810010508115	4877	1	0.011111	0.6885	1	1.05392	2	1.843162	2

Appendix B: Aggregate Base-Level Inventory Requirement

5810012737820	4877	3	0.033333	1.3333	2	1.96633	2	3.333333	4
5821010569616	4877	1	0.011111	0.6885	1	1.05392	2	1.843162	2
5821010621019	4877	6	0.066667	2.0809	3	2.97607	3	4.909307	5
5821010704695	4877	6	0.066667	2.0809	3	2.97607	3	4.909307	5
5821011015333	4877	2	0.022222	1.0387	2	1.55556	2	2.671712	3
5821012587579	4877	1	0.011111	0.6885	1	1.05392	2	1.843162	2
5821013123525	4877	1	0.011111	0.6885	1	1.05392	2	1.843162	2
5826002411011	4877	6	0.066667	2.0809	3	2.97607	3	4.909307	5
5826005050793	4877	2	0.022222	1.0387	2	1.55556	2	2.671712	3
5826005053094	4877	2	0.022222	1.0387	2	1.55556	2	2.671712	3
5826006259201	4877	1	0.011111	0.6885	1	1.05392	2	1.843162	2
5826010121919	4877	1	0.011111	0.6885	1	1.05392	2	1.843162	2
5826010121938	4877	12	0.133333	3.3333	4	4.59932	5	7.333333	8
5826010409798	4877	7	0.077778	2.3053	3	3.27222	4	5.360353	6
5831008802834	4877	2	0.022222	1.0387	2	1.55556	2	2.671712	3
5865011106043	4877	4	0.044444	1.5991	2	2.33006	3	3.908546	4
5895009992411	4877	2	0.022222	1.0387	2	1.55556	2	2.671712	3
5895011126380	4877	20	0.222222	4.8042	5	6.43859	7	9.968189	10
5895011287267	4877	4	0.044444	1.5991	2	2.33006	3	3.908546	4
5895011631762	4877	2	0.022222	1.0387	2	1.55556	2	2.671712	3
5895013102157	4877	2	0.022222	1.0387	2	1.55556	2	2.671712	3
5985012827891	4877	1	0.011111	0.6885	1	1.05392	2	1.843162	2
6605011081329	4877	2	0.022222	1.0387	2	1.55556	2	2.671712	3
6610010750673	4877	1	0.011111	0.6885	1	1.05392	2	1.843162	2
6610010996186	4877	3	0.033333	1.3333	2	1.96633	2	3.333333	4
6615005679423	4877	4	0.044444	1.5991	2	2.33006	3	3.908546	4
6615005759682	4877	4	0.044444	1.5991	2	2.33006	3	3.908546	4
6615009732218	4877	4	0.044444	1.5991	2	2.33006	3	3.908546	4
6615013169054	4877	2	0.022222	1.0387	2	1.55556	2	2.671712	3
6620005154541	4877	1	0.011111	0.6885	1	1.05392	2	1.843162	2
6625004713174	4877	2	0.022222	1.0387	2	1.55556	2	2.671712	3
6680010928262	4877	8	0.088889	2.5219	3	3.55556	4	5.787868	6
6695012013554	4877	1	0.011111	0.6885	1	1.05392	2	1.843162	2
1260012511150	4887	13	0.144444	3.5261	4	4.84379	5	7.689442	8
1270010405948	4887	2	0.022222	1.0387	2	1.55556	2	2.671712	3
1270010932256	4887	2	0.022222	1.0387	2	1.55556	2	2.671712	3
1270010948505	4887	3	0.033333	1.3333	2	1.96633	2	3.333333	4
1270011022963	4887	1	0.011111	0.6885	1	1.05392	2	1.843162	2
1270011022965	4887	1	0.011111	0.6885	1	1.05392	2	1.843162	2
1270011022966	4887	1	0.011111	0.6885	1	1.05392	2	1.843162	2
1270011229955	4887	2	0.022222	1.0387	2	1.55556	2	2.671712	3
1270011838987	4887	3	0.033333	1.3333	2	1.96633	2	3.333333	4
1270011997430	4887	4	0.044444	1.5991	2	2.33006	3	3.908546	4
1270012319800	4887	23	0.255556	5.3244	6	7.07711	8	10.86218	11
1270012330011	4887	41	0.455556	8.2524	9	10.5925	11	15.64609	16
1270012352370	4887	10	0.111111	2.9369	3	4.09254	5	6.588337	7
1270012383662	4887	40	0.444444	8.0959	9	10.4073	11	15.3989	16
1270012506235	4887	1	0.011111	0.6885	1	1.05392	2	1.843162	2
1270013093077	4887	5	0.055556	1.8466	2	2.66374	3	4.428539	5

Appendix B: Aggregate Base-Level Inventory Requirement

127001333608	4887	15	0.166667	3.9027	4	5.31815	6	8.374871	9
1270013624867	4887	1	0.011111	0.6885	1	1.05392	2	1.843162	2
1270013659471	4887	4	0.044444	1.5991	2	2.33006	3	3.908546	4
1270992512706	4887	13	0.144444	3.5261	4	4.84379	5	7.689442	8
1290011091499	4887	61	0.677778	11.287	12	14.1414	15	20.30553	21
1290012279260	4887	8	0.088889	2.5219	3	3.55556	4	5.787868	6
1290012403376	4887	1	0.011111	0.6885	1	1.05392	2	1.843162	2
1290012978068	4887	5	0.055556	1.8466	2	2.66374	3	4.428539	5
1290013223711	4887	1	0.011111	0.6885	1	1.05392	2	1.843162	2
1290013594751	4887	1	0.011111	0.6885	1	1.05392	2	1.843162	2
5810010508115	4887	5	0.055556	1.8466	2	2.66374	3	4.428539	5
5810012737820	4887	2	0.022222	1.0387	2	1.55556	2	2.671712	3
5821010621019	4887	2	0.022222	1.0387	2	1.55556	2	2.671712	3
5821010976218	4887	2	0.022222	1.0387	2	1.55556	2	2.671712	3
5826010121938	4887	2	0.022222	1.0387	2	1.55556	2	2.671712	3
5826010124864	4887	2	0.022222	1.0387	2	1.55556	2	2.671712	3
5826010409798	4887	9	0.1	2.7321	3	3.82843	4	6.196152	7
5836010512886	4887	4	0.044444	1.5991	2	2.33006	3	3.908546	4
5841010963945	4887	1	0.011111	0.6885	1	1.05392	2	1.843162	2
5841010964833	4887	4	0.044444	1.5991	2	2.33006	3	3.908546	4
5865010211647	4887	2	0.022222	1.0387	2	1.55556	2	2.671712	3
5865010535396	4887	2	0.022222	1.0387	2	1.55556	2	2.671712	3
5865010805675	4887	11	0.122222	3.1371	4	4.34917	5	6.966785	7
5865011106043	4887	10	0.111111	2.9369	3	4.09254	5	6.588337	7
5865013249103	4887	31	0.344444	6.659	7	8.69378	9	13.0881	14
5895008100189	4887	2	0.022222	1.0387	2	1.55556	2	2.671712	3
5895011074586	4887	19	0.211111	4.6277	5	6.22072	7	9.660946	10
5895011126380	4887	27	0.3	6	6	7.89898	8	12	12
5895011420803	4887	11	0.122222	3.1371	4	4.34917	5	6.966785	7
5895011435443	4887	5	0.055556	1.8466	2	2.66374	3	4.428539	5
5895011549125	4887	10	0.111111	2.9369	3	4.09254	5	6.588337	7
5895012301075	4887	6	0.066667	2.0809	3	2.97607	3	4.909307	5
5895012422033	4887	1	0.011111	0.6885	1	1.05392	2	1.843162	2
5895012489012	4887	6	0.066667	2.0809	3	2.97607	3	4.909307	5
5895013102157	4887	15	0.166667	3.9027	4	5.31815	6	8.374871	9
5930010920386	4887	6	0.066667	2.0809	3	2.97607	3	4.909307	5
5945011709363	4887	10	0.111111	2.9369	3	4.09254	5	6.588337	7
5985012122950	4887	27	0.3	6	6	7.89898	8	12	12
5998011230046	4887	2	0.022222	1.0387	2	1.55556	2	2.671712	3
5998011480712	4887	2	0.022222	1.0387	2	1.55556	2	2.671712	3
5998011896233	4887	96	1.066667	16.324	17	19.9043	20	27.63723	28
5998013227746	4887	6	0.066667	2.0809	3	2.97607	3	4.909307	5
5998013309073	4887	8	0.088889	2.5219	3	3.55556	4	5.787868	6
5999010803978	4887	12	0.133333	3.3333	4	4.59932	5	7.333333	8
6150012505539	4887	2	0.022222	1.0387	2	1.55556	2	2.671712	3
6340003327300	4887	9	0.1	2.7321	3	3.82843	4	6.196152	7
6605010424831	4887	4	0.044444	1.5991	2	2.33006	3	3.908546	4
6605010463533	4887	3	0.033333	1.3333	2	1.96633	2	3.333333	4
6605010876645	4887	7	0.077778	2.3053	3	3.27222	4	5.360353	6
6610001342259	4887	2	0.022222	1.0387	2	1.55556	2	2.671712	3

Appendix B: Aggregate Base-Level Inventory Requirement

6610003494184	4887	6	0.066667	2.0809	3	2.97607	3	4.909307	5
6610010379144	4887	2	0.022222	1.0387	2	1.55556	2	2.671712	3
6610010891018	4887	1	0.011111	0.6885	1	1.05392	2	1.843162	2
6610013081859	4887	10	0.111111	2.9369	3	4.09254	5	6.588337	7
6615010427834	4887	7	0.077778	2.3053	3	3.27222	4	5.360353	6
6615010427835	4887	1	0.011111	0.6885	1	1.05392	2	1.843162	2
6615011273160	4887	6	0.066667	2.0809	3	2.97607	3	4.909307	5
6615011496398	4887	1	0.011111	0.6885	1	1.05392	2	1.843162	2
6615013246374	4887	4	0.044444	1.5991	2	2.33006	3	3.908546	4
6615013566851	4887	3	0.033333	1.3333	2	1.96633	2	3.333333	4
6615013619746	4887	9	0.1	2.7321	3	3.82843	4	6.196152	7
6625011938861	4887	24	0.266667	5.4951	6	7.28547	8	11.15195	12
7025011963702	4887	28	0.311111	6.1662	7	8.09999	9	12.27626	13
1270012383662	4897	3	0.033333	1.3333	2	1.96633	2	3.333333	4
1270013659471	4897	2	0.022222	1.0387	2	1.55556	2	2.671712	3
1630010182004	4897	6	0.066667	2.0809	3	2.97607	3	4.909307	5
1680011596742	4897	2	0.022222	1.0387	2	1.55556	2	2.671712	3
5810012737820	4897	2	0.022222	1.0387	2	1.55556	2	2.671712	3
5821010621019	4897	2	0.022222	1.0387	2	1.55556	2	2.671712	3
5821012287058	4897	13	0.144444	3.5261	4	4.84379	5	7.689442	8
5821012587579	4897	1	0.011111	0.6885	1	1.05392	2	1.843162	2
5826001345966	4897	2	0.022222	1.0387	2	1.55556	2	2.671712	3
5826001345977	4897	2	0.022222	1.0387	2	1.55556	2	2.671712	3
5826001345979	4897	1	0.011111	0.6885	1	1.05392	2	1.843162	2
5826002266029	4897	2	0.022222	1.0387	2	1.55556	2	2.671712	3
5826005053094	4897	2	0.022222	1.0387	2	1.55556	2	2.671712	3
5826010124864	4897	2	0.022222	1.0387	2	1.55556	2	2.671712	3
5826010211744	4897	4	0.044444	1.5991	2	2.33006	3	3.908546	4
5826011244793	4897	3	0.033333	1.3333	2	1.96633	2	3.333333	4
5831005195883	4897	1	0.011111	0.6885	1	1.05392	2	1.843162	2
5836010512886	4897	2	0.022222	1.0387	2	1.55556	2	2.671712	3
5841001345975	4897	3	0.033333	1.3333	2	1.96633	2	3.333333	4
5841010537874	4897	2	0.022222	1.0387	2	1.55556	2	2.671712	3
5841010568647	4897	5	0.055556	1.8466	2	2.66374	3	4.428539	5
5841010781344	4897	2	0.022222	1.0387	2	1.55556	2	2.671712	3
5841012827091	4897	1	0.011111	0.6885	1	1.05392	2	1.843162	2
5841012827093	4897	3	0.033333	1.3333	2	1.96633	2	3.333333	4
5865011449320	4897	2	0.022222	1.0387	2	1.55556	2	2.671712	3
5895000894522	4897	7	0.077778	2.3053	3	3.27222	4	5.360353	6
5895010891808	4897	2	0.022222	1.0387	2	1.55556	2	2.671712	3
5895010959593	4897	3	0.033333	1.3333	2	1.96633	2	3.333333	4
5895011074586	4897	2	0.022222	1.0387	2	1.55556	2	2.671712	3
5895011126380	4897	4	0.044444	1.5991	2	2.33006	3	3.908546	4
5895011142469	4897	2	0.022222	1.0387	2	1.55556	2	2.671712	3
5895011736012	4897	2	0.022222	1.0387	2	1.55556	2	2.671712	3
5895012422033	4897	2	0.022222	1.0387	2	1.55556	2	2.671712	3
5895012728047	4897	10	0.111111	2.9369	3	4.09254	5	6.588337	7
5895012731990	4897	5	0.055556	1.8466	2	2.66374	3	4.428539	5
5895013296324	4897	3	0.033333	1.3333	2	1.96633	2	3.333333	4

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5930011729448	4897	3	0.033333	1.3333	2	1.96633	2	3.333333	4
5985012122950	4897	1	0.011111	0.6885	1	1.05392	2	1.843162	2
5985012827891	4897	2	0.022222	1.0387	2	1.55556	2	2.671712	3
5999010803978	4897	1	0.011111	0.6885	1	1.05392	2	1.843162	2
6110010498639	4897	3	0.033333	1.3333	2	1.96633	2	3.333333	4
6130010548810	4897	1	0.011111	0.6885	1	1.05392	2	1.843162	2
6605001491134	4897	4	0.044444	1.5991	2	2.33006	3	3.908546	4
6605005012379	4897	2	0.022222	1.0387	2	1.55556	2	2.671712	3
6605010424831	4897	11	0.122222	3.1371	4	4.34917	5	6.966785	7
6605010903390	4897	4	0.044444	1.5991	2	2.33006	3	3.908546	4
6605010940775	4897	2	0.022222	1.0387	2	1.55556	2	2.671712	3
6605993708249	4897	9	0.1	2.7321	3	3.82843	4	6.196152	7
6610001342259	4897	6	0.066667	2.0809	3	2.97607	3	4.909307	5
6610001342260	4897	2	0.022222	1.0387	2	1.55556	2	2.671712	3
6610003036706	4897	1	0.011111	0.6885	1	1.05392	2	1.843162	2
6610003142480	4897	4	0.044444	1.5991	2	2.33006	3	3.908546	4
6610003494184	4897	2	0.022222	1.0387	2	1.55556	2	2.671712	3
6610005357722	4897	2	0.022222	1.0387	2	1.55556	2	2.671712	3
6610010379144	4897	2	0.022222	1.0387	2	1.55556	2	2.671712	3
6610010754745	4897	2	0.022222	1.0387	2	1.55556	2	2.671712	3
6615002624314	4897	2	0.022222	1.0387	2	1.55556	2	2.671712	3
6615009732218	4897	2	0.022222	1.0387	2	1.55556	2	2.671712	3
6615010154794	4897	1	0.011111	0.6885	1	1.05392	2	1.843162	2
6615010214234	4897	2	0.022222	1.0387	2	1.55556	2	2.671712	3
6615010427834	4897	1	0.011111	0.6885	1	1.05392	2	1.843162	2
6615011382369	4897	1	0.011111	0.6885	1	1.05392	2	1.843162	2
6615013517337	4897	1	0.011111	0.6885	1	1.05392	2	1.843162	2
6620001487306	4897	3	0.033333	1.3333	2	1.96633	2	3.333333	4
6625004713174	4897	2	0.022222	1.0387	2	1.55556	2	2.671712	3
6625011938861	4897	2	0.022222	1.0387	2	1.55556	2	2.671712	3
6645009508599	4897	2	0.022222	1.0387	2	1.55556	2	2.671712	3
6680011033419	4897	2	0.022222	1.0387	2	1.55556	2	2.671712	3
6680011066215	4897	1	0.011111	0.6885	1	1.05392	2	1.843162	2
6685010482889	4897	4	0.044444	1.5991	2	2.33006	3	3.908546	4
7025011726541	4897	1	0.011111	0.6885	1	1.05392	2	1.843162	2
1270010469884	5000	10	0.111111	2.9369	3	4.09254	5	6.588337	7
1660005390090	5000	2	0.022222	1.0387	2	1.55556	2	2.671712	3
1660011374105	5000	2	0.022222	1.0387	2	1.55556	2	2.671712	3
1660012803132	5000	4	0.044444	1.5991	2	2.33006	3	3.908546	4
1680001238167	5000	8	0.088889	2.5219	3	3.55556	4	5.787868	6
1680010325251	5000	5	0.055556	1.8466	2	2.66374	3	4.428539	5
1680010652355	5000	3	0.033333	1.3333	2	1.96633	2	3.333333	4
1680010855984	5000	4	0.044444	1.5991	2	2.33006	3	3.908546	4
1680011572424	5000	1	0.011111	0.6885	1	1.05392	2	1.843162	2
1680011596742	5000	2	0.022222	1.0387	2	1.55556	2	2.671712	3
5810010269624	5000	4	0.044444	1.5991	2	2.33006	3	3.908546	4
5810010508115	5000	14	0.155556	3.7158	4	5.08322	6	8.036296	9
5810012737820	5000	5	0.055556	1.8466	2	2.66374	3	4.428539	5
5821010621019	5000	8	0.088889	2.5219	3	3.55556	4	5.787868	6

Appendix B: Aggregate Base-Level Inventory Requirement

5821012287058	5000	10	0.111111	2.9369	3	4.09254	5	6.588337	7
5821012587579	5000	7	0.077778	2.3053	3	3.27222	4	5.360353	6
5821012866543	5000	3	0.033333	1.3333	2	1.96633	2	3.333333	4
5826005050793	5000	8	0.088889	2.5219	3	3.55556	4	5.787868	6
5826005356629	5000	6	0.066667	2.0809	3	2.97607	3	4.909307	5
5826010121938	5000	25	0.277778	5.6645	6	7.49182	8	11.43803	12
5826010124864	5000	2	0.022222	1.0387	2	1.55556	2	2.671712	3
5826010603893	5000	2	0.022222	1.0387	2	1.55556	2	2.671712	3
5826012368622	5000	1	0.011111	0.6885	1	1.05392	2	1.843162	2
5831008802834	5000	4	0.044444	1.5991	2	2.33006	3	3.908546	4
5836010512886	5000	5	0.055556	1.8466	2	2.66374	3	4.428539	5
5841010042227	5000	2	0.022222	1.0387	2	1.55556	2	2.671712	3
5841010537872	5000	2	0.022222	1.0387	2	1.55556	2	2.671712	3
5841010568647	5000	1	0.011111	0.6885	1	1.05392	2	1.843162	2
5841011435778	5000	1	0.011111	0.6885	1	1.05392	2	1.843162	2
5841011435912	5000	2	0.022222	1.0387	2	1.55556	2	2.671712	3
5865010891745	5000	2	0.022222	1.0387	2	1.55556	2	2.671712	3
5865011003770	5000	4	0.044444	1.5991	2	2.33006	3	3.908546	4
5865011449320	5000	2	0.022222	1.0387	2	1.55556	2	2.671712	3
5865012112335	5000	2	0.022222	1.0387	2	1.55556	2	2.671712	3
5895001491319	5000	8	0.088889	2.5219	3	3.55556	4	5.787868	6
5895001602198	5000	8	0.088889	2.5219	3	3.55556	4	5.787868	6
5895010959593	5000	3	0.033333	1.3333	2	1.96633	2	3.333333	4
5895011126380	5000	1	0.011111	0.6885	1	1.05392	2	1.843162	2
5895011287267	5000	1	0.011111	0.6885	1	1.05392	2	1.843162	2
5895011354647	5000	2	0.022222	1.0387	2	1.55556	2	2.671712	3
5895011736012	5000	2	0.022222	1.0387	2	1.55556	2	2.671712	3
5895012728047	5000	6	0.066667	2.0809	3	2.97607	3	4.909307	5
5895013296324	5000	15	0.166667	3.9027	4	5.31815	6	8.374871	9
5895013455140	5000	1	0.011111	0.6885	1	1.05392	2	1.843162	2
5955010032850	5000	2	0.022222	1.0387	2	1.55556	2	2.671712	3
5985010537675	5000	1	0.011111	0.6885	1	1.05392	2	1.843162	2
5985011515848	5000	4	0.044444	1.5991	2	2.33006	3	3.908546	4
5985012827892	5000	1	0.011111	0.6885	1	1.05392	2	1.843162	2
6110005390411	5000	8	0.088889	2.5219	3	3.55556	4	5.787868	6
6110010498639	5000	3	0.033333	1.3333	2	1.96633	2	3.333333	4
6130013509124	5000	1	0.011111	0.6885	1	1.05392	2	1.843162	2
6320001342251	5000	6	0.066667	2.0809	3	2.97607	3	4.909307	5
6605001491134	5000	6	0.066667	2.0809	3	2.97607	3	4.909307	5
6605004479654	5000	6	0.066667	2.0809	3	2.97607	3	4.909307	5
6605005659797	5000	2	0.022222	1.0387	2	1.55556	2	2.671712	3
6605010424831	5000	25	0.277778	5.6645	6	7.49182	8	11.43803	12
6605010903390	5000	5	0.055556	1.8466	2	2.66374	3	4.428539	5
6605010940775	5000	28	0.311111	6.1662	7	8.09999	9	12.27626	13
6610000000122	5000	4	0.044444	1.5991	2	2.33006	3	3.908546	4
6610001342259	5000	6	0.066667	2.0809	3	2.97607	3	4.909307	5
6610001342260	5000	3	0.033333	1.3333	2	1.96633	2	3.333333	4
6610001600905	5000	6	0.066667	2.0809	3	2.97607	3	4.909307	5
6610002963574	5000	15	0.166667	3.9027	4	5.31815	6	8.374871	9
6610003142480	5000	8	0.088889	2.5219	3	3.55556	4	5.787868	6

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6610003293495	5000	5	0.055556	1.8466	2	2.66374	3	4.428539	5
6610003494184	5000	13	0.144444	3.5261	4	4.84379	5	7.689442	8
6610003616686	5000	2	0.022222	1.0387	2	1.55556	2	2.671712	3
6610005357722	5000	16	0.177778	4.0872	5	5.54901	6	8.705981	9
6610010379144	5000	5	0.055556	1.8466	2	2.66374	3	4.428539	5
6610011676617	5000	4	0.044444	1.5991	2	2.33006	3	3.908546	4
6615001377514	5000	7	0.077778	2.3053	3	3.27222	4	5.360353	6
6615002624314	5000	4	0.044444	1.5991	2	2.33006	3	3.908546	4
6615009732218	5000	6	0.066667	2.0809	3	2.97607	3	4.909307	5
6615010154794	5000	3	0.033333	1.3333	2	1.96633	2	3.333333	4
6615011484182	5000	1	0.011111	0.6885	1	1.05392	2	1.843162	2
6615012253746	5000	1	0.011111	0.6885	1	1.05392	2	1.843162	2
6620001487306	5000	11	0.122222	3.1371	4	4.34917	5	6.966785	7
6620004689824	5000	2	0.022222	1.0387	2	1.55556	2	2.671712	3
6625008954446	5000	8	0.088889	2.5219	3	3.55556	4	5.787868	6
6645000763050	5000	24	0.266667	5.4951	6	7.28547	8	11.15195	12
6680010669003	5000	2	0.022222	1.0387	2	1.55556	2	2.671712	3
6680011033419	5000	1	0.011111	0.6885	1	1.05392	2	1.843162	2
6680011066215	5000	8	0.088889	2.5219	3	3.55556	4	5.787868	6
6685003336763	5000	2	0.022222	1.0387	2	1.55556	2	2.671712	3
6685010482889	5000	22	0.244444	5.1525	6	6.86661	7	10.56848	11
1270010940527	5004	1	0.011111	0.6885	1	1.05392	2	1.843162	2
1270011126862	5004	3	0.033333	1.3333	2	1.96633	2	3.333333	4
1270012330011	5004	6	0.066667	2.0809	3	2.97607	3	4.909307	5
1270012383662	5004	2	0.022222	1.0387	2	1.55556	2	2.671712	3
1270012566538	5004	5	0.055556	1.8466	2	2.66374	3	4.428539	5
1270013093077	5004	1	0.011111	0.6885	1	1.05392	2	1.843162	2
1290013223711	5004	2	0.022222	1.0387	2	1.55556	2	2.671712	3
1290013594751	5004	1	0.011111	0.6885	1	1.05392	2	1.843162	2
4920011548792	5004	3	0.033333	1.3333	2	1.96633	2	3.333333	4
4920011548820	5004	3	0.033333	1.3333	2	1.96633	2	3.333333	4
5810000613386	5004	4	0.044444	1.5991	2	2.33006	3	3.908546	4
5810004490154	5004	4	0.044444	1.5991	2	2.33006	3	3.908546	4
5810012737820	5004	6	0.066667	2.0809	3	2.97607	3	4.909307	5
5815011251526	5004	2	0.022222	1.0387	2	1.55556	2	2.671712	3
5821010569616	5004	3	0.033333	1.3333	2	1.96633	2	3.333333	4
5821010569617	5004	2	0.022222	1.0387	2	1.55556	2	2.671712	3
5821010621019	5004	4	0.044444	1.5991	2	2.33006	3	3.908546	4
5821010704695	5004	2	0.022222	1.0387	2	1.55556	2	2.671712	3
5821012137333	5004	4	0.044444	1.5991	2	2.33006	3	3.908546	4
5821012287058	5004	2	0.022222	1.0387	2	1.55556	2	2.671712	3
5821013123525	5004	6	0.066667	2.0809	3	2.97607	3	4.909307	5
5826010121919	5004	2	0.022222	1.0387	2	1.55556	2	2.671712	3
5826010121938	5004	4	0.044444	1.5991	2	2.33006	3	3.908546	4
5826010124864	5004	2	0.022222	1.0387	2	1.55556	2	2.671712	3
5826010409798	5004	4	0.044444	1.5991	2	2.33006	3	3.908546	4
5831005235328	5004	1	0.011111	0.6885	1	1.05392	2	1.843162	2
5836010512886	5004	7	0.077778	2.3053	3	3.27222	4	5.360353	6
5865010535396	5004	2	0.022222	1.0387	2	1.55556	2	2.671712	3

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5865010805675	5004	8	0.088889	2.5219	3	3.55556	4	5.787868	6
5865011106043	5004	4	0.044444	1.5991	2	2.33006	3	3.908546	4
5865013249103	5004	4	0.044444	1.5991	2	2.33006	3	3.908546	4
5895000894522	5004	1	0.011111	0.6885	1	1.05392	2	1.843162	2
5895011074586	5004	2	0.022222	1.0387	2	1.55556	2	2.671712	3
5895011126380	5004	15	0.166667	3.9027	4	5.31815	6	8.374871	9
5895011549125	5004	16	0.177778	4.0872	5	5.54901	6	8.705981	9
5895012422033	5004	3	0.033333	1.3333	2	1.96633	2	3.333333	4
5895013102157	5004	8	0.088889	2.5219	3	3.55556	4	5.787868	6
5945011709363	5004	1	0.011111	0.6885	1	1.05392	2	1.843162	2
5985012122950	5004	3	0.033333	1.3333	2	1.96633	2	3.333333	4
5998011896233	5004	4	0.044444	1.5991	2	2.33006	3	3.908546	4
5998013227746	5004	1	0.011111	0.6885	1	1.05392	2	1.843162	2
6605010987557	5004	5	0.055556	1.8466	2	2.66374	3	4.428539	5
6610010996186	5004	2	0.022222	1.0387	2	1.55556	2	2.671712	3
6610013081859	5004	2	0.022222	1.0387	2	1.55556	2	2.671712	3
6615005759682	5004	8	0.088889	2.5219	3	3.55556	4	5.787868	6
6615013169054	5004	3	0.033333	1.3333	2	1.96633	2	3.333333	4
6615013619746	5004	5	0.055556	1.8466	2	2.66374	3	4.428539	5
6695012330927	5004	1	0.011111	0.6885	1	1.05392	2	1.843162	2
7025011963702	5004	2	0.022222	1.0387	2	1.55556	2	2.671712	3
1270012319800	5205	2	0.022222	1.0387	2	1.55556	2	2.671712	3
1270012330011	5205	1	0.011111	0.6885	1	1.05392	2	1.843162	2
1270012383662	5205	5	0.055556	1.8466	2	2.66374	3	4.428539	5
1270992512706	5205	1	0.011111	0.6885	1	1.05392	2	1.843162	2
5810010269624	5205	8	0.088889	2.5219	3	3.55556	4	5.787868	6
5836010512886	5205	2	0.022222	1.0387	2	1.55556	2	2.671712	3
5895011126380	5205	2	0.022222	1.0387	2	1.55556	2	2.671712	3
5930010920386	5205	5	0.055556	1.8466	2	2.66374	3	4.428539	5
5945011709363	5205	1	0.011111	0.6885	1	1.05392	2	1.843162	2
6605005012379	5205	2	0.022222	1.0387	2	1.55556	2	2.671712	3
6625011938861	5205	1	0.011111	0.6885	1	1.05392	2	1.843162	2
5810010508115	5209	2	0.022222	1.0387	2	1.55556	2	2.671712	3
5826002411011	5209	2	0.022222	1.0387	2	1.55556	2	2.671712	3
5826005050793	5209	1	0.011111	0.6885	1	1.05392	2	1.843162	2
5831005391714	5209	2	0.022222	1.0387	2	1.55556	2	2.671712	3
5831008093180	5209	2	0.022222	1.0387	2	1.55556	2	2.671712	3
5831008802834	5209	1	0.011111	0.6885	1	1.05392	2	1.843162	2
5840010073959	5209	5	0.055556	1.8466	2	2.66374	3	4.428539	5
5841009743254	5209	6	0.066667	2.0809	3	2.97607	3	4.909307	5
5841010042227	5209	1	0.011111	0.6885	1	1.05392	2	1.843162	2
5841010568647	5209	24	0.266667	5.4951	6	7.28547	8	11.15195	12
5841011435778	5209	3	0.033333	1.3333	2	1.96633	2	3.333333	4
5841011435910	5209	2	0.022222	1.0387	2	1.55556	2	2.671712	3
5841011435912	5209	2	0.022222	1.0387	2	1.55556	2	2.671712	3
5841012029769	5209	2	0.022222	1.0387	2	1.55556	2	2.671712	3
5841012644422	5209	3	0.033333	1.3333	2	1.96633	2	3.333333	4
5895009992411	5209	3	0.033333	1.3333	2	1.96633	2	3.333333	4

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5895011287267	5209	2	0.022222	1.0387	2	1.55556	2	2.671712	3
5985011515848	5209	4	0.044444	1.5991	2	2.33006	3	3.908546	4
5985012827892	5209	1	0.011111	0.6885	1	1.05392	2	1.843162	2
6605005012379	5209	1	0.011111	0.6885	1	1.05392	2	1.843162	2
6605010182181	5209	2	0.022222	1.0387	2	1.55556	2	2.671712	3
6605010352009	5209	2	0.022222	1.0387	2	1.55556	2	2.671712	3
6615009732218	5209	8	0.088889	2.5219	3	3.55556	4	5.787868	6
6625004713174	5209	1	0.011111	0.6885	1	1.05392	2	1.843162	2
6645001506526	5209	4	0.044444	1.5991	2	2.33006	3	3.908546	4
1270010405948	5270	4	0.044444	1.5991	2	2.33006	3	3.908546	4
1270010469884	5270	11	0.122222	3.1371	4	4.34917	5	6.966785	7
1270011838987	5270	2	0.022222	1.0387	2	1.55556	2	2.671712	3
1660011374105	5270	1	0.011111	0.6885	1	1.05392	2	1.843162	2
1680010652355	5270	2	0.022222	1.0387	2	1.55556	2	2.671712	3
5810004490154	5270	1	0.011111	0.6885	1	1.05392	2	1.843162	2
5810010508115	5270	4	0.044444	1.5991	2	2.33006	3	3.908546	4
5810012737820	5270	3	0.033333	1.3333	2	1.96633	2	3.333333	4
5821010979133	5270	2	0.022222	1.0387	2	1.55556	2	2.671712	3
5821011038155	5270	1	0.011111	0.6885	1	1.05392	2	1.843162	2
5821011365467	5270	2	0.022222	1.0387	2	1.55556	2	2.671712	3
5821012866543	5270	1	0.011111	0.6885	1	1.05392	2	1.843162	2
5826001345972	5270	2	0.022222	1.0387	2	1.55556	2	2.671712	3
5826010121919	5270	2	0.022222	1.0387	2	1.55556	2	2.671712	3
5826010127084	5270	2	0.022222	1.0387	2	1.55556	2	2.671712	3
5836010512886	5270	7	0.077778	2.3053	3	3.27222	4	5.360353	6
5841010537872	5270	2	0.022222	1.0387	2	1.55556	2	2.671712	3
5841010781344	5270	5	0.055556	1.8466	2	2.66374	3	4.428539	5
5841010891064	5270	3	0.033333	1.3333	2	1.96633	2	3.333333	4
5841012827090	5270	2	0.022222	1.0387	2	1.55556	2	2.671712	3
5865010650173	5270	2	0.022222	1.0387	2	1.55556	2	2.671712	3
5865010805675	5270	2	0.022222	1.0387	2	1.55556	2	2.671712	3
5895000894522	5270	3	0.033333	1.3333	2	1.96633	2	3.333333	4
5895003409619	5270	1	0.011111	0.6885	1	1.05392	2	1.843162	2
5895009992411	5270	6	0.066667	2.0809	3	2.97607	3	4.909307	5
5895010418257	5270	2	0.022222	1.0387	2	1.55556	2	2.671712	3
5895010891808	5270	2	0.022222	1.0387	2	1.55556	2	2.671712	3
5895012278845	5270	2	0.022222	1.0387	2	1.55556	2	2.671712	3
5895012834089	5270	1	0.011111	0.6885	1	1.05392	2	1.843162	2
5895013455140	5270	4	0.044444	1.5991	2	2.33006	3	3.908546	4
5930010920386	5270	2	0.022222	1.0387	2	1.55556	2	2.671712	3
5985010537675	5270	2	0.022222	1.0387	2	1.55556	2	2.671712	3
5985012827891	5270	2	0.022222	1.0387	2	1.55556	2	2.671712	3
5985012827892	5270	2	0.022222	1.0387	2	1.55556	2	2.671712	3
6130010548810	5270	2	0.022222	1.0387	2	1.55556	2	2.671712	3
6130010568665	5270	1	0.011111	0.6885	1	1.05392	2	1.843162	2
6605005012379	5270	2	0.022222	1.0387	2	1.55556	2	2.671712	3
6605005569318	5270	4	0.044444	1.5991	2	2.33006	3	3.908546	4
6605010940775	5270	2	0.022222	1.0387	2	1.55556	2	2.671712	3
6610008792788	5270	4	0.044444	1.5991	2	2.33006	3	3.908546	4

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6615009732218	5270	4	0.044444	1.5991	2	2.33006	3	3.908546	4
6615010154794	5270	2	0.022222	1.0387	2	1.55556	2	2.671712	3
6615012253745	5270	2	0.022222	1.0387	2	1.55556	2	2.671712	3
6615012258139	5270	4	0.044444	1.5991	2	2.33006	3	3.908546	4
6615012261012	5270	4	0.044444	1.5991	2	2.33006	3	3.908546	4
6620001249515	5270	2	0.022222	1.0387	2	1.55556	2	2.671712	3
6645009508599	5270	2	0.022222	1.0387	2	1.55556	2	2.671712	3
6685012320794	5270	2	0.022222	1.0387	2	1.55556	2	2.671712	3
6695011577072	5270	1	0.011111	0.6885	1	1.05392	2	1.843162	2
5810000613386	5284	2	0.022222	1.0387	2	1.55556	2	2.671712	3
5836010512886	5284	3	0.033333	1.3333	2	1.96633	2	3.333333	4
5930010920386	5284	6	0.066667	2.0809	3	2.97607	3	4.909307	5
1270010940527	5294	2	0.022222	1.0387	2	1.55556	2	2.671712	3
1270011126862	5294	4	0.044444	1.5991	2	2.33006	3	3.908546	4
1270012383662	5294	2	0.022222	1.0387	2	1.55556	2	2.671712	3
1270012566538	5294	2	0.022222	1.0387	2	1.55556	2	2.671712	3
1290013594751	5294	1	0.011111	0.6885	1	1.05392	2	1.843162	2
5810004490154	5294	4	0.044444	1.5991	2	2.33006	3	3.908546	4
5810010508115	5294	2	0.022222	1.0387	2	1.55556	2	2.671712	3
5810010508116	5294	2	0.022222	1.0387	2	1.55556	2	2.671712	3
5810010509968	5294	5	0.055556	1.8466	2	2.66374	3	4.428539	5
5810010842200	5294	4	0.044444	1.5991	2	2.33006	3	3.908546	4
5810011731410	5294	2	0.022222	1.0387	2	1.55556	2	2.671712	3
5810012737820	5294	9	0.1	2.7321	3	3.82843	4	6.196152	7
5821010621019	5294	4	0.044444	1.5991	2	2.33006	3	3.908546	4
5826010121938	5294	4	0.044444	1.5991	2	2.33006	3	3.908546	4
5831000611577	5294	2	0.022222	1.0387	2	1.55556	2	2.671712	3
5831005235328	5294	4	0.044444	1.5991	2	2.33006	3	3.908546	4
5836010512886	5294	2	0.022222	1.0387	2	1.55556	2	2.671712	3
5841010918929	5294	2	0.022222	1.0387	2	1.55556	2	2.671712	3
5855013055313	5294	1	0.011111	0.6885	1	1.05392	2	1.843162	2
5865010775162	5294	2	0.022222	1.0387	2	1.55556	2	2.671712	3
5865013249103	5294	2	0.022222	1.0387	2	1.55556	2	2.671712	3
5895001602198	5294	2	0.022222	1.0387	2	1.55556	2	2.671712	3
5895011631762	5294	7	0.077778	2.3053	3	3.27222	4	5.360353	6
5895012056615	5294	2	0.022222	1.0387	2	1.55556	2	2.671712	3
5930010920386	5294	2	0.022222	1.0387	2	1.55556	2	2.671712	3
5985011515848	5294	2	0.022222	1.0387	2	1.55556	2	2.671712	3
5999012644636	5294	1	0.011111	0.6885	1	1.05392	2	1.843162	2
6610010996186	5294	2	0.022222	1.0387	2	1.55556	2	2.671712	3
6645000763050	5294	4	0.044444	1.5991	2	2.33006	3	3.908546	4
5810000613386	5518	2	0.022222	1.0387	2	1.55556	2	2.671712	3
5810012737820	5518	1	0.011111	0.6885	1	1.05392	2	1.843162	2
5815010575286	5518	2	0.022222	1.0387	2	1.55556	2	2.671712	3
5821010621019	5518	24	0.266667	5.4951	6	7.28547	8	11.15195	12
5821010704695	5518	1	0.011111	0.6885	1	1.05392	2	1.843162	2
5821011038155	5518	6	0.066667	2.0809	3	2.97607	3	4.909307	5

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5821012133980	5518	6	0.066667	2.0809	3	2.97607	3	4.909307	5
5821012287058	5518	8	0.088889	2.5219	3	3.55556	4	5.787868	6
5821012587580	5518	2	0.022222	1.0387	2	1.55556	2	2.671712	3
5821012866543	5518	5	0.055556	1.8466	2	2.66374	3	4.428539	5
5821013115105	5518	2	0.022222	1.0387	2	1.55556	2	2.671712	3
5826001345966	5518	1	0.011111	0.6885	1	1.05392	2	1.843162	2
5826001345970	5518	5	0.055556	1.8466	2	2.66374	3	4.428539	5
5826001345971	5518	3	0.033333	1.3333	2	1.96633	2	3.333333	4
5826001345972	5518	1	0.011111	0.6885	1	1.05392	2	1.843162	2
5826001345973	5518	2	0.022222	1.0387	2	1.55556	2	2.671712	3
5826001345974	5518	2	0.022222	1.0387	2	1.55556	2	2.671712	3
5826001345976	5518	3	0.033333	1.3333	2	1.96633	2	3.333333	4
5826001345977	5518	14	0.155556	3.7158	4	5.08322	6	8.036296	9
5826001345978	5518	7	0.077778	2.3053	3	3.27222	4	5.360353	6
5826001345979	5518	5	0.055556	1.8466	2	2.66374	3	4.428539	5
5826001345982	5518	1	0.011111	0.6885	1	1.05392	2	1.843162	2
5826001345984	5518	4	0.044444	1.5991	2	2.33006	3	3.908546	4
5826001345985	5518	4	0.044444	1.5991	2	2.33006	3	3.908546	4
5826004445276	5518	1	0.011111	0.6885	1	1.05392	2	1.843162	2
5826006045665	5518	2	0.022222	1.0387	2	1.55556	2	2.671712	3
5826009178679	5518	8	0.088889	2.5219	3	3.55556	4	5.787868	6
5826010121938	5518	9	0.1	2.7321	3	3.82843	4	6.196152	7
5826011244793	5518	1	0.011111	0.6885	1	1.05392	2	1.843162	2
5826012368622	5518	3	0.033333	1.3333	2	1.96633	2	3.333333	4
5826013512143	5518	2	0.022222	1.0387	2	1.55556	2	2.671712	3
5831000611577	5518	2	0.022222	1.0387	2	1.55556	2	2.671712	3
5831005195881	5518	2	0.022222	1.0387	2	1.55556	2	2.671712	3
5831005195883	5518	10	0.111111	2.9369	3	4.09254	5	6.588337	7
5841001345975	5518	2	0.022222	1.0387	2	1.55556	2	2.671712	3
5841008047159	5518	1	0.011111	0.6885	1	1.05392	2	1.843162	2
5841010537872	5518	3	0.033333	1.3333	2	1.96633	2	3.333333	4
5841010537874	5518	2	0.022222	1.0387	2	1.55556	2	2.671712	3
5841010568647	5518	16	0.177778	4.0872	5	5.54901	6	8.705981	9
5841010693756	5518	2	0.022222	1.0387	2	1.55556	2	2.671712	3
5841010781344	5518	2	0.022222	1.0387	2	1.55556	2	2.671712	3
5841012827090	5518	2	0.022222	1.0387	2	1.55556	2	2.671712	3
5841012827091	5518	2	0.022222	1.0387	2	1.55556	2	2.671712	3
5841012827093	5518	8	0.088889	2.5219	3	3.55556	4	5.787868	6
5841012830065	5518	6	0.066667	2.0809	3	2.97607	3	4.909307	5
5865011106043	5518	10	0.111111	2.9369	3	4.09254	5	6.588337	7
5865012340860	5518	2	0.022222	1.0387	2	1.55556	2	2.671712	3
5865012698062	5518	1	0.011111	0.6885	1	1.05392	2	1.843162	2
5865013249103	5518	8	0.088889	2.5219	3	3.55556	4	5.787868	6
5895000894522	5518	33	0.366667	6.9833	7	9.08269	10	13.61654	14
5895001602198	5518	4	0.044444	1.5991	2	2.33006	3	3.908546	4
5895009001196	5518	3	0.033333	1.3333	2	1.96633	2	3.333333	4
5895010533579	5518	2	0.022222	1.0387	2	1.55556	2	2.671712	3
5895011549125	5518	4	0.044444	1.5991	2	2.33006	3	3.908546	4
5895013102157	5518	4	0.044444	1.5991	2	2.33006	3	3.908546	4
5915010558592	5518	2	0.022222	1.0387	2	1.55556	2	2.671712	3

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5930010920386	5518	1	0.011111	0.6885	1	1.05392	2	1.843162	2
5985010537675	5518	4	0.044444	1.5991	2	2.33006	3	3.908546	4
5985010537676	5518	3	0.033333	1.3333	2	1.96633	2	3.333333	4
5985012827891	5518	7	0.077778	2.3053	3	3.27222	4	5.360353	6
5985012827892	5518	2	0.022222	1.0387	2	1.55556	2	2.671712	3
6130010568665	5518	1	0.011111	0.6885	1	1.05392	2	1.843162	2
6605005012379	5518	8	0.088889	2.5219	3	3.55556	4	5.787868	6
6605005569318	5518	9	0.1	2.7321	3	3.82843	4	6.196152	7
6605006202801	5518	6	0.066667	2.0809	3	2.97607	3	4.909307	5
6605006208635	5518	2	0.022222	1.0387	2	1.55556	2	2.671712	3
6605006517991	5518	2	0.022222	1.0387	2	1.55556	2	2.671712	3
6605008985597	5518	10	0.111111	2.9369	3	4.09254	5	6.588337	7
6610007269394	5518	2	0.022222	1.0387	2	1.55556	2	2.671712	3
6610008792788	5518	2	0.022222	1.0387	2	1.55556	2	2.671712	3
6615009732218	5518	19	0.211111	4.6277	5	6.22072	7	9.660946	10
6615011382369	5518	10	0.111111	2.9369	3	4.09254	5	6.588337	7
6615012253745	5518	1	0.011111	0.6885	1	1.05392	2	1.843162	2
6615012258139	5518	21	0.233333	4.9791	5	6.65383	7	10.27059	11
6615012258241	5518	2	0.022222	1.0387	2	1.55556	2	2.671712	3
6615012261012	5518	16	0.177778	4.0872	5	5.54901	6	8.705981	9
6620005154541	5518	2	0.022222	1.0387	2	1.55556	2	2.671712	3
6625004713174	5518	1	0.011111	0.6885	1	1.05392	2	1.843162	2
6625008954446	5518	2	0.022222	1.0387	2	1.55556	2	2.671712	3
6645001506526	5518	10	0.111111	2.9369	3	4.09254	5	6.588337	7
6645008805927	5518	2	0.022222	1.0387	2	1.55556	2	2.671712	3
6645009508599	5518	4	0.044444	1.5991	2	2.33006	3	3.908546	4
1270013093077	5612	4	0.044444	1.5991	2	2.33006	3	3.908546	4
1270997468162	5612	1	0.011111	0.6885	1	1.05392	2	1.843162	2
5810012737820	5612	1	0.011111	0.6885	1	1.05392	2	1.843162	2
5821010621019	5612	6	0.066667	2.0809	3	2.97607	3	4.909307	5
5826002411011	5612	2	0.022222	1.0387	2	1.55556	2	2.671712	3
5826010121938	5612	6	0.066667	2.0809	3	2.97607	3	4.909307	5
5831005235328	5612	2	0.022222	1.0387	2	1.55556	2	2.671712	3
5841010537872	5612	1	0.011111	0.6885	1	1.05392	2	1.843162	2
5841011423767	5612	2	0.022222	1.0387	2	1.55556	2	2.671712	3
5841011423785	5612	1	0.011111	0.6885	1	1.05392	2	1.843162	2
5841011435910	5612	2	0.022222	1.0387	2	1.55556	2	2.671712	3
5841011435912	5612	8	0.088889	2.5219	3	3.55556	4	5.787868	6
5895001602198	5612	15	0.166667	3.9027	4	5.31815	6	8.374871	9
5895005071381	5612	1	0.011111	0.6885	1	1.05392	2	1.843162	2
5895011631762	5612	2	0.022222	1.0387	2	1.55556	2	2.671712	3
5895013102157	5612	6	0.066667	2.0809	3	2.97607	3	4.909307	5
5915010558592	5612	2	0.022222	1.0387	2	1.55556	2	2.671712	3
5985012827891	5612	1	0.011111	0.6885	1	1.05392	2	1.843162	2
6605006719631	5612	2	0.022222	1.0387	2	1.55556	2	2.671712	3
6605012562380	5612	2	0.022222	1.0387	2	1.55556	2	2.671712	3
6620005154541	5612	4	0.044444	1.5991	2	2.33006	3	3.908546	4
1260012511150	5621	3	0.033333	1.3333	2	1.96633	2	3.333333	4

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1270010940527	5621	1	0.011111	0.6885	1	1.05392	2	1.843162	2
1270011126862	5621	1	0.011111	0.6885	1	1.05392	2	1.843162	2
1270012330011	5621	2	0.022222	1.0387	2	1.55556	2	2.671712	3
1270012383662	5621	3	0.033333	1.3333	2	1.96633	2	3.333333	4
1290013223711	5621	2	0.022222	1.0387	2	1.55556	2	2.671712	3
1290013765449	5621	2	0.022222	1.0387	2	1.55556	2	2.671712	3
1680011596742	5621	2	0.022222	1.0387	2	1.55556	2	2.671712	3
5810010508115	5621	2	0.022222	1.0387	2	1.55556	2	2.671712	3
5821010569617	5621	1	0.011111	0.6885	1	1.05392	2	1.843162	2
5821010704695	5621	8	0.088889	2.5219	3	3.55556	4	5.787868	6
5826010409798	5621	6	0.066667	2.0809	3	2.97607	3	4.909307	5
5836010512886	5621	4	0.044444	1.5991	2	2.33006	3	3.908546	4
5895011126380	5621	2	0.022222	1.0387	2	1.55556	2	2.671712	3
5895011420803	5621	7	0.077778	2.3053	3	3.27222	4	5.360353	6
5895011631762	5621	1	0.011111	0.6885	1	1.05392	2	1.843162	2
5895012489012	5621	2	0.022222	1.0387	2	1.55556	2	2.671712	3
5895012728047	5621	2	0.022222	1.0387	2	1.55556	2	2.671712	3
5895013102157	5621	2	0.022222	1.0387	2	1.55556	2	2.671712	3
5895013558414	5621	1	0.011111	0.6885	1	1.05392	2	1.843162	2
5945011709363	5621	4	0.044444	1.5991	2	2.33006	3	3.908546	4
5985012122950	5621	2	0.022222	1.0387	2	1.55556	2	2.671712	3
5998011896233	5621	11	0.122222	3.1371	4	4.34917	5	6.966785	7
5998013309073	5621	1	0.011111	0.6885	1	1.05392	2	1.843162	2
6110010498639	5621	2	0.022222	1.0387	2	1.55556	2	2.671712	3
6130010548810	5621	2	0.022222	1.0387	2	1.55556	2	2.671712	3
6340003327300	5621	2	0.022222	1.0387	2	1.55556	2	2.671712	3
6605010424831	5621	1	0.011111	0.6885	1	1.05392	2	1.843162	2
6605010903390	5621	4	0.044444	1.5991	2	2.33006	3	3.908546	4
6605010940775	5621	2	0.022222	1.0387	2	1.55556	2	2.671712	3
6605011081329	5621	1	0.011111	0.6885	1	1.05392	2	1.843162	2
6605012319757	5621	1	0.011111	0.6885	1	1.05392	2	1.843162	2
6605012562380	5621	3	0.033333	1.3333	2	1.96633	2	3.333333	4
6605993708249	5621	14	0.155556	3.7158	4	5.08322	6	8.036296	9
6610001342259	5621	4	0.044444	1.5991	2	2.33006	3	3.908546	4
6610001342260	5621	2	0.022222	1.0387	2	1.55556	2	2.671712	3
6610002963574	5621	1	0.011111	0.6885	1	1.05392	2	1.843162	2
6610003494184	5621	4	0.044444	1.5991	2	2.33006	3	3.908546	4
6610005357722	5621	6	0.066667	2.0809	3	2.97607	3	4.909307	5
6610007198446	5621	2	0.022222	1.0387	2	1.55556	2	2.671712	3
6610010750673	5621	1	0.011111	0.6885	1	1.05392	2	1.843162	2
6610010996186	5621	12	0.133333	3.3333	4	4.59932	5	7.333333	8
6610013081859	5621	5	0.055556	1.8466	2	2.66374	3	4.428539	5
6615003036728	5621	10	0.111111	2.9369	3	4.09254	5	6.588337	7
6615003036730	5621	2	0.022222	1.0387	2	1.55556	2	2.671712	3
6615005679423	5621	6	0.066667	2.0809	3	2.97607	3	4.909307	5
6615013169054	5621	13	0.144444	3.5261	4	4.84379	5	7.689442	8
6615013517337	5621	5	0.055556	1.8466	2	2.66374	3	4.428539	5
6620001249515	5621	8	0.088889	2.5219	3	3.55556	4	5.787868	6
6625011938861	5621	2	0.022222	1.0387	2	1.55556	2	2.671712	3
6680010928262	5621	6	0.066667	2.0809	3	2.97607	3	4.909307	5

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6685010482889	5621	2	0.022222	1.0387	2	1.55556	2	2.671712	3
6695013434006	5621	8	0.088889	2.5219	3	3.55556	4	5.787868	6
7025011963702	5621	12	0.133333	3.3333	4	4.59932	5	7.333333	8
1260012511150	5682	12	0.133333	3.3333	4	4.59932	5	7.333333	8
1270012330011	5682	1	0.011111	0.6885	1	1.05392	2	1.843162	2
1270012383662	5682	1	0.011111	0.6885	1	1.05392	2	1.843162	2
1270012566538	5682	5	0.055556	1.8466	2	2.66374	3	4.428539	5
1270013093077	5682	2	0.022222	1.0387	2	1.55556	2	2.671712	3
1270013308895	5682	1	0.011111	0.6885	1	1.05392	2	1.843162	2
1290011091499	5682	2	0.022222	1.0387	2	1.55556	2	2.671712	3
1290012978068	5682	3	0.033333	1.3333	2	1.96633	2	3.333333	4
1290013223711	5682	1	0.011111	0.6885	1	1.05392	2	1.843162	2
5821010621019	5682	3	0.033333	1.3333	2	1.96633	2	3.333333	4
5821012137333	5682	1	0.011111	0.6885	1	1.05392	2	1.843162	2
5821013123525	5682	1	0.011111	0.6885	1	1.05392	2	1.843162	2
5841011435778	5682	2	0.022222	1.0387	2	1.55556	2	2.671712	3
5865010805675	5682	6	0.066667	2.0809	3	2.97607	3	4.909307	5
5865011106043	5682	2	0.022222	1.0387	2	1.55556	2	2.671712	3
5895009992411	5682	2	0.022222	1.0387	2	1.55556	2	2.671712	3
5895011074586	5682	2	0.022222	1.0387	2	1.55556	2	2.671712	3
5895011126380	5682	6	0.066667	2.0809	3	2.97607	3	4.909307	5
5895011420803	5682	1	0.011111	0.6885	1	1.05392	2	1.843162	2
5895011435443	5682	3	0.033333	1.3333	2	1.96633	2	3.333333	4
5895011549125	5682	10	0.111111	2.9369	3	4.09254	5	6.588337	7
5895013102157	5682	2	0.022222	1.0387	2	1.55556	2	2.671712	3
5985012122950	5682	1	0.011111	0.6885	1	1.05392	2	1.843162	2
5998011896233	5682	14	0.155556	3.7158	4	5.08322	6	8.036296	9
5999010803978	5682	3	0.033333	1.3333	2	1.96633	2	3.333333	4
6610013081859	5682	3	0.033333	1.3333	2	1.96633	2	3.333333	4
6615010427834	5682	1	0.011111	0.6885	1	1.05392	2	1.843162	2
6615013619746	5682	2	0.022222	1.0387	2	1.55556	2	2.671712	3
6625011938861	5682	5	0.055556	1.8466	2	2.66374	3	4.428539	5
7025011963702	5682	7	0.077778	2.3053	3	3.27222	4	5.360353	6
5826001345967	6291	1	0.011111	0.6885	1	1.05392	2	1.843162	2
5826001345977	6291	1	0.011111	0.6885	1	1.05392	2	1.843162	2
5826001345985	6291	1	0.011111	0.6885	1	1.05392	2	1.843162	2
5826003191378	6291	1	0.011111	0.6885	1	1.05392	2	1.843162	2
5826005053094	6291	2	0.022222	1.0387	2	1.55556	2	2.671712	3
5826009902332	6291	1	0.011111	0.6885	1	1.05392	2	1.843162	2
6610007269394	6291	2	0.022222	1.0387	2	1.55556	2	2.671712	3
6615012258139	6291	5	0.055556	1.8466	2	2.66374	3	4.428539	5
6645009508599	6291	6	0.066667	2.0809	3	2.97607	3	4.909307	5
6695011577072	6291	2	0.022222	1.0387	2	1.55556	2	2.671712	3
1270002135877	6371	2	0.022222	1.0387	2	1.55556	2	2.671712	3
1270010405948	6371	2	0.022222	1.0387	2	1.55556	2	2.671712	3
1630010182004	6371	2	0.022222	1.0387	2	1.55556	2	2.671712	3
5821011365467	6371	1	0.011111	0.6885	1	1.05392	2	1.843162	2

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5821011948160	6371	2	0.022222	1.0387	2	1.55556	2	2.671712	3
5826005053094	6371	2	0.022222	1.0387	2	1.55556	2	2.671712	3
5826010121938	6371	2	0.022222	1.0387	2	1.55556	2	2.671712	3
5836010512886	6371	2	0.022222	1.0387	2	1.55556	2	2.671712	3
5865011449320	6371	4	0.044444	1.5991	2	2.33006	3	3.908546	4
5865012112335	6371	2	0.022222	1.0387	2	1.55556	2	2.671712	3
5895010891808	6371	6	0.066667	2.0809	3	2.97607	3	4.909307	5
5895010959593	6371	2	0.022222	1.0387	2	1.55556	2	2.671712	3
5955010032850	6371	2	0.022222	1.0387	2	1.55556	2	2.671712	3
5955010226196	6371	2	0.022222	1.0387	2	1.55556	2	2.671712	3
6340003327300	6371	2	0.022222	1.0387	2	1.55556	2	2.671712	3
6605001491134	6371	5	0.055556	1.8466	2	2.66374	3	4.428539	5
6605010424831	6371	4	0.044444	1.5991	2	2.33006	3	3.908546	4
6605010940775	6371	2	0.022222	1.0387	2	1.55556	2	2.671712	3
6610002963574	6371	2	0.022222	1.0387	2	1.55556	2	2.671712	3
6610003142480	6371	4	0.044444	1.5991	2	2.33006	3	3.908546	4
6610003293495	6371	2	0.022222	1.0387	2	1.55556	2	2.671712	3
6610005357722	6371	6	0.066667	2.0809	3	2.97607	3	4.909307	5
6610007198446	6371	2	0.022222	1.0387	2	1.55556	2	2.671712	3
6610011676617	6371	2	0.022222	1.0387	2	1.55556	2	2.671712	3
6615001377514	6371	6	0.066667	2.0809	3	2.97607	3	4.909307	5
6615003036728	6371	1	0.011111	0.6885	1	1.05392	2	1.843162	2
6615009732218	6371	2	0.022222	1.0387	2	1.55556	2	2.671712	3
6615010844995	6371	2	0.022222	1.0387	2	1.55556	2	2.671712	3
6620001249515	6371	6	0.066667	2.0809	3	2.97607	3	4.909307	5
6620005154541	6371	2	0.022222	1.0387	2	1.55556	2	2.671712	3
6685010482889	6371	2	0.022222	1.0387	2	1.55556	2	2.671712	3
1270012352370	6511	3	0.033333	1.3333	2	1.96633	2	3.333333	4
1270992512706	6511	2	0.022222	1.0387	2	1.55556	2	2.671712	3
5985012122950	6511	4	0.044444	1.5991	2	2.33006	3	3.908546	4
6615011273160	6511	1	0.011111	0.6885	1	1.05392	2	1.843162	2
6625011938861	6511	4	0.044444	1.5991	2	2.33006	3	3.908546	4
7025011963702	6511	9	0.1	2.7321	3	3.82843	4	6.196152	7
5826005053094	6605	2	0.022222	1.0387	2	1.55556	2	2.671712	3
5841010042227	6605	2	0.022222	1.0387	2	1.55556	2	2.671712	3
5841010568647	6605	1	0.011111	0.6885	1	1.05392	2	1.843162	2
5865012340860	6605	2	0.022222	1.0387	2	1.55556	2	2.671712	3
6130010568665	6605	2	0.022222	1.0387	2	1.55556	2	2.671712	3
6645001506526	6605	4	0.044444	1.5991	2	2.33006	3	3.908546	4
1630011897830	6606	4	0.044444	1.5991	2	2.33006	3	3.908546	4
2915001117770	6606	1	0.011111	0.6885	1	1.05392	2	1.843162	2
4810002399239	6606	1	0.011111	0.6885	1	1.05392	2	1.843162	2
4920002497147	6606	2	0.022222	1.0387	2	1.55556	2	2.671712	3
4920002510569	6606	1	0.011111	0.6885	1	1.05392	2	1.843162	2
4920004000242	6606	2	0.022222	1.0387	2	1.55556	2	2.671712	3
4920005639126	6606	4	0.044444	1.5991	2	2.33006	3	3.908546	4
4920011174366	6606	2	0.022222	1.0387	2	1.55556	2	2.671712	3

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4920011185129	6606	6	0.066667	2.0809	3	2.97607	3	4.909307	5
4920012521094	6606	3	0.033333	1.3333	2	1.96633	2	3.333333	4
5810000613386	6606	8	0.088889	2.5219	3	3.55556	4	5.787868	6
5810011790665	6606	2	0.022222	1.0387	2	1.55556	2	2.671712	3
5821011369512	6606	1	0.011111	0.6885	1	1.05392	2	1.843162	2
5821012287058	6606	14	0.155556	3.7158	4	5.08322	6	8.036296	9
5821012866543	6606	1	0.011111	0.6885	1	1.05392	2	1.843162	2
5821013117551	6606	2	0.022222	1.0387	2	1.55556	2	2.671712	3
5826002265171	6606	2	0.022222	1.0387	2	1.55556	2	2.671712	3
5826010121919	6606	2	0.022222	1.0387	2	1.55556	2	2.671712	3
5826010121938	6606	2	0.022222	1.0387	2	1.55556	2	2.671712	3
5841010891064	6606	1	0.011111	0.6885	1	1.05392	2	1.843162	2
5841010918929	6606	1	0.011111	0.6885	1	1.05392	2	1.843162	2
5841012918393	6606	6	0.066667	2.0809	3	2.97607	3	4.909307	5
5895000894521	6606	7	0.077778	2.3053	3	3.27222	4	5.360353	6
5895008809688	6606	2	0.022222	1.0387	2	1.55556	2	2.671712	3
5895011790505	6606	2	0.022222	1.0387	2	1.55556	2	2.671712	3
5985012058599	6606	1	0.011111	0.6885	1	1.05392	2	1.843162	2
5998011908294	6606	2	0.022222	1.0387	2	1.55556	2	2.671712	3
5998011909306	6606	2	0.022222	1.0387	2	1.55556	2	2.671712	3
5998011917007	6606	2	0.022222	1.0387	2	1.55556	2	2.671712	3
5998012898541	6606	2	0.022222	1.0387	2	1.55556	2	2.671712	3
6110011976781	6606	2	0.022222	1.0387	2	1.55556	2	2.671712	3
6610000180682	6606	2	0.022222	1.0387	2	1.55556	2	2.671712	3
6610000180683	6606	2	0.022222	1.0387	2	1.55556	2	2.671712	3
6610001691601	6606	9	0.1	2.7321	3	3.82843	4	6.196152	7
6610005061745	6606	3	0.033333	1.3333	2	1.96633	2	3.333333	4
6610011326660	6606	5	0.055556	1.8466	2	2.66374	3	4.428539	5
6610011326661	6606	3	0.033333	1.3333	2	1.96633	2	3.333333	4
6610011440719	6606	2	0.022222	1.0387	2	1.55556	2	2.671712	3
6615004117976	6606	7	0.077778	2.3053	3	3.27222	4	5.360353	6
6615010453888	6606	4	0.044444	1.5991	2	2.33006	3	3.908546	4
6615010471190	6606	6	0.066667	2.0809	3	2.97607	3	4.909307	5
6615011877821	6606	2	0.022222	1.0387	2	1.55556	2	2.671712	3
6620012816386	6606	1	0.011111	0.6885	1	1.05392	2	1.843162	2
6680011016438	6606	1	0.011111	0.6885	1	1.05392	2	1.843162	2
5810010269624	6618	2	0.022222	1.0387	2	1.55556	2	2.671712	3
5810010508115	6618	2	0.022222	1.0387	2	1.55556	2	2.671712	3
5821010621019	6618	7	0.077778	2.3053	3	3.27222	4	5.360353	6
5821012287058	6618	4	0.044444	1.5991	2	2.33006	3	3.908546	4
5831005391714	6618	6	0.066667	2.0809	3	2.97607	3	4.909307	5
5831008802834	6618	6	0.066667	2.0809	3	2.97607	3	4.909307	5
5841010568647	6618	1	0.011111	0.6885	1	1.05392	2	1.843162	2
5841012827090	6618	2	0.022222	1.0387	2	1.55556	2	2.671712	3
5841012827093	6618	8	0.088889	2.5219	3	3.55556	4	5.787868	6
5985012827892	6618	2	0.022222	1.0387	2	1.55556	2	2.671712	3
6620005154541	6618	2	0.022222	1.0387	2	1.55556	2	2.671712	3
5810010508115	6633	1	0.011111	0.6885	1	1.05392	2	1.843162	2

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5826010124864	6633	2	0.022222	1.0387	2	1.55556	2	2.671712	3
5841011435912	6633	4	0.044444	1.5991	2	2.33006	3	3.908546	4
6615009732218	6633	2	0.022222	1.0387	2	1.55556	2	2.671712	3
6645009508599	6633	2	0.022222	1.0387	2	1.55556	2	2.671712	3
5810010508115	6637	2	0.022222	1.0387	2	1.55556	2	2.671712	3
5821010621019	6637	4	0.044444	1.5991	2	2.33006	3	3.908546	4
5821012287058	6637	4	0.044444	1.5991	2	2.33006	3	3.908546	4
5821012413149	6637	2	0.022222	1.0387	2	1.55556	2	2.671712	3
5826002411011	6637	1	0.011111	0.6885	1	1.05392	2	1.843162	2
5826010121938	6637	2	0.022222	1.0387	2	1.55556	2	2.671712	3
5841011435912	6637	2	0.022222	1.0387	2	1.55556	2	2.671712	3
5841012029769	6637	2	0.022222	1.0387	2	1.55556	2	2.671712	3
5841012827093	6637	3	0.033333	1.3333	2	1.96633	2	3.333333	4
5895001602198	6637	8	0.088889	2.5219	3	3.55556	4	5.787868	6
5985012827891	6637	1	0.011111	0.6885	1	1.05392	2	1.843162	2
6130010568665	6637	2	0.022222	1.0387	2	1.55556	2	2.671712	3
6620005154541	6637	4	0.044444	1.5991	2	2.33006	3	3.908546	4
6625004713174	6637	2	0.022222	1.0387	2	1.55556	2	2.671712	3
6625008954446	6637	1	0.011111	0.6885	1	1.05392	2	1.843162	2
6645001506526	6637	2	0.022222	1.0387	2	1.55556	2	2.671712	3
1270010932256	6648	12	0.133333	3.3333	4	4.59932	5	7.333333	8
1270010948505	6648	6	0.066667	2.0809	3	2.97607	3	4.909307	5
1270011022962	6648	6	0.066667	2.0809	3	2.97607	3	4.909307	5
1270011997430	6648	14	0.155556	3.7158	4	5.08322	6	8.036296	9
1270012223829	6648	4	0.044444	1.5991	2	2.33006	3	3.908546	4
1270013590877	6648	6	0.066667	2.0809	3	2.97607	3	4.909307	5
1290010800203	6648	2	0.022222	1.0387	2	1.55556	2	2.671712	3
1290011091499	6648	5	0.055556	1.8466	2	2.66374	3	4.428539	5
5841010964833	6648	1	0.011111	0.6885	1	1.05392	2	1.843162	2
5865010211647	6648	2	0.022222	1.0387	2	1.55556	2	2.671712	3
5895011126380	6648	6	0.066667	2.0809	3	2.97607	3	4.909307	5
5985010932174	6648	2	0.022222	1.0387	2	1.55556	2	2.671712	3
5985011464630	6648	5	0.055556	1.8466	2	2.66374	3	4.428539	5
5985013083647	6648	2	0.022222	1.0387	2	1.55556	2	2.671712	3
5998011230046	6648	4	0.044444	1.5991	2	2.33006	3	3.908546	4
6605010463533	6648	6	0.066667	2.0809	3	2.97607	3	4.909307	5
6610013081859	6648	4	0.044444	1.5991	2	2.33006	3	3.908546	4
6615011273160	6648	2	0.022222	1.0387	2	1.55556	2	2.671712	3
6615013566851	6648	2	0.022222	1.0387	2	1.55556	2	2.671712	3
5841012918393	6656	1	0.011111	0.6885	1	1.05392	2	1.843162	2
5865013249103	6656	4	0.044444	1.5991	2	2.33006	3	3.908546	4
5895009992411	6656	1	0.011111	0.6885	1	1.05392	2	1.843162	2
5895011549125	6656	2	0.022222	1.0387	2	1.55556	2	2.671712	3
6620005154541	6656	2	0.022222	1.0387	2	1.55556	2	2.671712	3
6645009508599	6656	2	0.022222	1.0387	2	1.55556	2	2.671712	3
5810010508115	6670	2	0.022222	1.0387	2	1.55556	2	2.671712	3

Appendix B: Aggregate Base-Level Inventory Requirement

5841010931491	6670	2	0.022222	1.0387	2	1.55556	2	2.671712	3
1260012511150	6675	3	0.033333	1.3333	2	1.96633	2	3.333333	4
1270011229955	6675	2	0.022222	1.0387	2	1.55556	2	2.671712	3
1270012319800	6675	1	0.011111	0.6885	1	1.05392	2	1.843162	2
1270012330011	6675	2	0.022222	1.0387	2	1.55556	2	2.671712	3
1270012352370	6675	2	0.022222	1.0387	2	1.55556	2	2.671712	3
1270012383662	6675	5	0.055556	1.8466	2	2.66374	3	4.428539	5
1270012740543	6675	2	0.022222	1.0387	2	1.55556	2	2.671712	3
1270992512706	6675	2	0.022222	1.0387	2	1.55556	2	2.671712	3
1270997714187	6675	2	0.022222	1.0387	2	1.55556	2	2.671712	3
1290012279260	6675	1	0.011111	0.6885	1	1.05392	2	1.843162	2
5810010508115	6675	7	0.077778	2.3053	3	3.27222	4	5.360353	6
5836010512886	6675	3	0.033333	1.3333	2	1.96633	2	3.333333	4
5865010211647	6675	2	0.022222	1.0387	2	1.55556	2	2.671712	3
5865013249103	6675	2	0.022222	1.0387	2	1.55556	2	2.671712	3
5895011074586	6675	2	0.022222	1.0387	2	1.55556	2	2.671712	3
5895011126380	6675	2	0.022222	1.0387	2	1.55556	2	2.671712	3
5895011435443	6675	2	0.022222	1.0387	2	1.55556	2	2.671712	3
5895011549125	6675	2	0.022222	1.0387	2	1.55556	2	2.671712	3
5895012301075	6675	4	0.044444	1.5991	2	2.33006	3	3.908546	4
5895013102157	6675	2	0.022222	1.0387	2	1.55556	2	2.671712	3
5930010920386	6675	7	0.077778	2.3053	3	3.27222	4	5.360353	6
5985012122950	6675	6	0.066667	2.0809	3	2.97607	3	4.909307	5
5998011480712	6675	2	0.022222	1.0387	2	1.55556	2	2.671712	3
5998011896233	6675	1	0.011111	0.6885	1	1.05392	2	1.843162	2
5998013227746	6675	1	0.011111	0.6885	1	1.05392	2	1.843162	2
6615011273160	6675	3	0.033333	1.3333	2	1.96633	2	3.333333	4
6615011496398	6675	1	0.011111	0.6885	1	1.05392	2	1.843162	2
6615013246374	6675	1	0.011111	0.6885	1	1.05392	2	1.843162	2
6625011938861	6675	3	0.033333	1.3333	2	1.96633	2	3.333333	4
7025011963702	6675	5	0.055556	1.8466	2	2.66374	3	4.428539	5
5810010508115	6703	9	0.1	2.7321	3	3.82843	4	6.196152	7
5821012287058	6703	4	0.044444	1.5991	2	2.33006	3	3.908546	4
5826002750612	6703	1	0.011111	0.6885	1	1.05392	2	1.843162	2
5826010121938	6703	2	0.022222	1.0387	2	1.55556	2	2.671712	3
5841010781344	6703	1	0.011111	0.6885	1	1.05392	2	1.843162	2
5841011435912	6703	2	0.022222	1.0387	2	1.55556	2	2.671712	3
5841012827090	6703	1	0.011111	0.6885	1	1.05392	2	1.843162	2
5841012827093	6703	1	0.011111	0.6885	1	1.05392	2	1.843162	2
5841012830065	6703	1	0.011111	0.6885	1	1.05392	2	1.843162	2
5865012340860	6703	2	0.022222	1.0387	2	1.55556	2	2.671712	3
6130010568665	6703	1	0.011111	0.6885	1	1.05392	2	1.843162	2
6645001506526	6703	2	0.022222	1.0387	2	1.55556	2	2.671712	3
6645009508599	6703	2	0.022222	1.0387	2	1.55556	2	2.671712	3
5821011038155	6712	2	0.022222	1.0387	2	1.55556	2	2.671712	3
5826005053094	6712	2	0.022222	1.0387	2	1.55556	2	2.671712	3
5841010693756	6712	1	0.011111	0.6885	1	1.05392	2	1.843162	2

Appendix B: Aggregate Base-Level Inventory Requirement

6620005154541	6712	4	0.044444	1.5991	2	2.33006	3	3.908546	4
6645001506526	6712	6	0.066667	2.0809	3	2.97607	3	4.909307	5
6645009508599	6712	2	0.022222	1.0387	2	1.55556	2	2.671712	3
1260012511150	6716	3	0.033333	1.3333	2	1.96633	2	3.333333	4
1270012330011	6716	2	0.022222	1.0387	2	1.55556	2	2.671712	3
1270012352370	6716	5	0.055556	1.8466	2	2.66374	3	4.428539	5
1290012279260	6716	5	0.055556	1.8466	2	2.66374	3	4.428539	5
5865010805675	6716	2	0.022222	1.0387	2	1.55556	2	2.671712	3
5865011106043	6716	2	0.022222	1.0387	2	1.55556	2	2.671712	3
5895011126380	6716	5	0.055556	1.8466	2	2.66374	3	4.428539	5
5895011435443	6716	1	0.011111	0.6885	1	1.05392	2	1.843162	2
5895011549125	6716	4	0.044444	1.5991	2	2.33006	3	3.908546	4
5895012301075	6716	1	0.011111	0.6885	1	1.05392	2	1.843162	2
5895013102157	6716	4	0.044444	1.5991	2	2.33006	3	3.908546	4
5945011709363	6716	2	0.022222	1.0387	2	1.55556	2	2.671712	3
5985012122950	6716	4	0.044444	1.5991	2	2.33006	3	3.908546	4
5998011480712	6716	1	0.011111	0.6885	1	1.05392	2	1.843162	2
5998011896233	6716	4	0.044444	1.5991	2	2.33006	3	3.908546	4
5998013227746	6716	1	0.011111	0.6885	1	1.05392	2	1.843162	2
5998013309073	6716	7	0.077778	2.3053	3	3.27222	4	5.360353	6
6610013081859	6716	2	0.022222	1.0387	2	1.55556	2	2.671712	3
6615010427834	6716	1	0.011111	0.6885	1	1.05392	2	1.843162	2
6615011273160	6716	1	0.011111	0.6885	1	1.05392	2	1.843162	2
6615013246374	6716	3	0.033333	1.3333	2	1.96633	2	3.333333	4
6625011938861	6716	3	0.033333	1.3333	2	1.96633	2	3.333333	4
7025011963702	6716	3	0.033333	1.3333	2	1.96633	2	3.333333	4
TOTAL ASSET REQUIREMENT					7837		9878		14434

Appendix C: Consolidated Demand Inventory Requirement

NSN	DEMAND	DDR	S+1SD	Qty Req	S+2SD	Qty Req	S+3SD	Qty Req
6620005154541	65	0.722222	9.909641	10	16.53172	17	21.18646	22
5998011661324	1	0.011111	0.444444	1	1.265812	2	1.843162	2
5998000703123	13	0.144444	2.646295	3	5.607776	6	7.689442	8
6685013033675	1	0.011111	0.444444	1	1.265812	2	1.843162	2
6610011814215	3	0.033333	0.910684	1	2.333333	3	3.333333	4
5998012151814	2	0.022222	0.693627	1	1.855215	2	2.671712	3
1280012601019	1	0.011111	0.444444	1	1.265812	2	1.843162	2
5841012857896	3	0.033333	0.910684	1	2.333333	3	3.333333	4
6610012594655	3	0.033333	0.910684	1	2.333333	3	3.333333	4
6615008667670	6	0.066667	1.483163	2	3.495094	4	4.909307	5
5998011787809	5	0.055556	1.300912	2	3.137544	4	4.428539	5
6610011806298	7	0.077778	1.659695	2	3.832828	4	5.360353	6
5915010558592	10	0.111111	2.165204	3	4.762595	5	6.588337	7
5895011184566	4	0.044444	1.111111	2	2.753846	3	3.908546	4
5895012490130	2	0.022222	0.693627	1	1.855215	2	2.671712	3
1270013659471	7	0.077778	1.659695	2	3.832828	4	5.360353	6
5826011521266	1	0.011111	0.444444	1	1.265812	2	1.843162	2
5915010507361	2	0.022222	0.693627	1	1.855215	2	2.671712	3
5999012644636	3	0.033333	0.910684	1	2.333333	3	3.333333	4
4920002510569	8	0.088889	1.831698	2	4.154875	5	5.787868	6
6605011828850	2	0.022222	0.693627	1	1.855215	2	2.671712	3
6605003142536	7	0.077778	1.659695	2	3.832828	4	5.360353	6
6680011016437	6	0.066667	1.483163	2	3.495094	4	4.909307	5
1650011780487	5	0.055556	1.300912	2	3.137544	4	4.428539	5
2995012113924	4	0.044444	1.111111	2	2.753846	3	3.908546	4
5990007178111	12	0.133333	2.488034	3	5.333333	6	7.333333	8
5998000703278	6	0.066667	1.483163	2	3.495094	4	4.909307	5
5998013039376	9	0.1	2	2	4.464102	5	6.196152	7
5998013216836	1	0.011111	0.444444	1	1.265812	2	1.843162	2
6625010508119	2	0.022222	0.693627	1	1.855215	2	2.671712	3
4810002399239	4	0.044444	1.111111	2	2.753846	3	3.908546	4
6130012905885	2	0.022222	0.693627	1	1.855215	2	2.671712	3
6610012621507	2	0.022222	0.693627	1	1.855215	2	2.671712	3
6615012768318	2	0.022222	0.693627	1	1.855215	2	2.671712	3
6620001487306	26	0.288889	4.588562	5	8.776729	9	11.72065	12
1630011897830	7	0.077778	1.659695	2	3.832828	4	5.360353	6
2915001117770	2	0.022222	0.693627	1	1.855215	2	2.671712	3
6610010397817	4	0.044444	1.111111	2	2.753846	3	3.908546	4
5985000987346	8	0.088889	1.831698	2	4.154875	5	5.787868	6
5998012151820	4	0.044444	1.111111	2	2.753846	3	3.908546	4
5998013072615	7	0.077778	1.659695	2	3.832828	4	5.360353	6
5998013080908	6	0.066667	1.483163	2	3.495094	4	4.909307	5
2840010491177	1	0.011111	0.444444	1	1.265812	2	1.843162	2
4920001344901	1	0.011111	0.444444	1	1.265812	2	1.843162	2
4920002487129	2	0.022222	0.693627	1	1.855215	2	2.671712	3
5999012801750	2	0.022222	0.693627	1	1.855215	2	2.671712	3
5999012620506	1	0.011111	0.444444	1	1.265812	2	1.843162	2
6210007665190	2	0.022222	0.693627	1	1.855215	2	2.671712	3

Appendix C: Consolidated Demand Inventory Requirement

6610011802184	6	0.066667	1.483163	2	3.495094	4	4.909307	5
6615010351092	3	0.033333	0.910684	1	2.333333	3	3.333333	4
6610003036706	1	0.011111	0.444444	1	1.265812	2	1.843162	2
6680011016438	5	0.055556	1.300912	2	3.137544	4	4.428539	5
1270011022965	1	0.011111	0.444444	1	1.265812	2	1.843162	2
5998011793977	10	0.111111	2.165204	3	4.762595	5	6.588337	7
5998012199403	1	0.011111	0.444444	1	1.265812	2	1.843162	2
6615009072838	4	0.044444	1.111111	2	2.753846	3	3.908546	4
5855013055313	1	0.011111	0.444444	1	1.265812	2	1.843162	2
5998011661318	4	0.044444	1.111111	2	2.753846	3	3.908546	4
1650013044171	1	0.011111	0.444444	1	1.265812	2	1.843162	2
2840002336043	3	0.033333	0.910684	1	2.333333	3	3.333333	4
5865013369219	6	0.066667	1.483163	2	3.495094	4	4.909307	5
6610012238179	3	0.033333	0.910684	1	2.333333	3	3.333333	4
2840011584264	1	0.011111	0.444444	1	1.265812	2	1.843162	2
1280011609427	1	0.011111	0.444444	1	1.265812	2	1.843162	2
1280011887186	2	0.022222	0.693627	1	1.855215	2	2.671712	3
1660012154559	2	0.022222	0.693627	1	1.855215	2	2.671712	3
5998011799684	8	0.088889	1.831698	2	4.154875	5	5.787868	6
5998011807496	2	0.022222	0.693627	1	1.855215	2	2.671712	3
5998012147382	1	0.011111	0.444444	1	1.265812	2	1.843162	2
5998012151812	1	0.011111	0.444444	1	1.265812	2	1.843162	2
5998012151813	11	0.122222	2.327764	3	5.051931	6	6.966785	7
5998013039377	3	0.033333	0.910684	1	2.333333	3	3.333333	4
5998013476724	2	0.022222	0.693627	1	1.855215	2	2.671712	3
6110012575267	2	0.022222	0.693627	1	1.855215	2	2.671712	3
6610012184287	6	0.066667	1.483163	2	3.495094	4	4.909307	5
6610012628319	12	0.133333	2.488034	3	5.333333	6	7.333333	8
6610013076362	1	0.011111	0.444444	1	1.265812	2	1.843162	2
6615009504212	6	0.066667	1.483163	2	3.495094	4	4.909307	5
6615011791782	2	0.022222	0.693627	1	1.855215	2	2.671712	3
6620011835122	3	0.033333	0.910684	1	2.333333	3	3.333333	4
6620012816386	2	0.022222	0.693627	1	1.855215	2	2.671712	3
5998012147421	2	0.022222	0.693627	1	1.855215	2	2.671712	3
6105012328318	4	0.044444	1.111111	2	2.753846	3	3.908546	4
6130011827382	1	0.011111	0.444444	1	1.265812	2	1.843162	2
6615006244321	2	0.022222	0.693627	1	1.855215	2	2.671712	3
6610013449239	2	0.022222	0.693627	1	1.855215	2	2.671712	3
6620011829763	3	0.033333	0.910684	1	2.333333	3	3.333333	4
5998011908300	3	0.033333	0.910684	1	2.333333	3	3.333333	4
6130011603432	1	0.011111	0.444444	1	1.265812	2	1.843162	2
6130012834075	1	0.011111	0.444444	1	1.265812	2	1.843162	2
6610012695437	2	0.022222	0.693627	1	1.855215	2	2.671712	3
6620012652887	3	0.033333	0.910684	1	2.333333	3	3.333333	4
1280012288051	8	0.088889	1.831698	2	4.154875	5	5.787868	6
6615009363486	7	0.077778	1.659695	2	3.832828	4	5.360353	6
6620004459417	2	0.022222	0.693627	1	1.855215	2	2.671712	3
1650004866297	8	0.088889	1.831698	2	4.154875	5	5.787868	6
6130011734966	2	0.022222	0.693627	1	1.855215	2	2.671712	3
6150012505539	3	0.033333	0.910684	1	2.333333	3	3.333333	4

Appendix C: Consolidated Demand Inventory Requirement

5841011507427	2	0.022222	0.693627	1	1.855215	2	2.671712	3
5960011848831	2	0.022222	0.693627	1	1.855215	2	2.671712	3
5999011661314	2	0.022222	0.693627	1	1.855215	2	2.671712	3
6615009078535	14	0.155556	2.802775	3	5.876049	6	8.036296	9
6615012719168	1	0.011111	0.444444	1	1.265812	2	1.843162	2
6620011644913	6	0.066667	1.483163	2	3.495094	4	4.909307	5
1270012506235	1	0.011111	0.444444	1	1.265812	2	1.843162	2
6615012258241	8	0.088889	1.831698	2	4.154875	5	5.787868	6
6220011756188	1	0.011111	0.444444	1	1.265812	2	1.843162	2
6615008094515	1	0.011111	0.444444	1	1.265812	2	1.843162	2
5999012801758	1	0.011111	0.444444	1	1.265812	2	1.843162	2
1660011486207	3	0.033333	0.910684	1	2.333333	3	3.333333	4
5998000140041	1	0.011111	0.444444	1	1.265812	2	1.843162	2
1650001575945	3	0.033333	0.910684	1	2.333333	3	3.333333	4
2995011862828	2	0.022222	0.693627	1	1.855215	2	2.671712	3
5998011793982	7	0.077778	1.659695	2	3.832828	4	5.360353	6
5998011811313	8	0.088889	1.831698	2	4.154875	5	5.787868	6
5999011743216	1	0.011111	0.444444	1	1.265812	2	1.843162	2
5999012684664	2	0.022222	0.693627	1	1.855215	2	2.671712	3
5999012704819	2	0.022222	0.693627	1	1.855215	2	2.671712	3
6680011441284	2	0.022222	0.693627	1	1.855215	2	2.671712	3
5810011731410	2	0.022222	0.693627	1	1.855215	2	2.671712	3
5998013023458	4	0.044444	1.111111	2	2.753846	3	3.908546	4
6610010891018	1	0.011111	0.444444	1	1.265812	2	1.843162	2
4920001344903	1	0.011111	0.444444	1	1.265812	2	1.843162	2
1680011874063	5	0.055556	1.300912	2	3.137544	4	4.428539	5
5998011793981	1	0.011111	0.444444	1	1.265812	2	1.843162	2
5998012908616	2	0.022222	0.693627	1	1.855215	2	2.671712	3
6615010358996	4	0.044444	1.111111	2	2.753846	3	3.908546	4
6680013570388	1	0.011111	0.444444	1	1.265812	2	1.843162	2
5985004319944	2	0.022222	0.693627	1	1.855215	2	2.671712	3
6130013509124	1	0.011111	0.444444	1	1.265812	2	1.843162	2
5865013087671	1	0.011111	0.444444	1	1.265812	2	1.843162	2
1290013594751	3	0.033333	0.910684	1	2.333333	3	3.333333	4
6605010423133	2	0.022222	0.693627	1	1.855215	2	2.671712	3
5826006112389	4	0.044444	1.111111	2	2.753846	3	3.908546	4
5895008809688	4	0.044444	1.111111	2	2.753846	3	3.908546	4
5998012115515	2	0.022222	0.693627	1	1.855215	2	2.671712	3
6610011814398	4	0.044444	1.111111	2	2.753846	3	3.908546	4
1660011433525	1	0.011111	0.444444	1	1.265812	2	1.843162	2
4920012098961	1	0.011111	0.444444	1	1.265812	2	1.843162	2
5895012056615	2	0.022222	0.693627	1	1.855215	2	2.671712	3
1280012302684	2	0.022222	0.693627	1	1.855215	2	2.671712	3
5855013207640	1	0.011111	0.444444	1	1.265812	2	1.843162	2
5975011046852	1	0.011111	0.444444	1	1.265812	2	1.843162	2
6615011794007	3	0.033333	0.910684	1	2.333333	3	3.333333	4
6680012639938	1	0.011111	0.444444	1	1.265812	2	1.843162	2
5998011661330	3	0.033333	0.910684	1	2.333333	3	3.333333	4
5998012149989	2	0.022222	0.693627	1	1.855215	2	2.671712	3
5998012847254	1	0.011111	0.444444	1	1.265812	2	1.843162	2

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6620004689824	3	0.033333	0.910684	1	2.333333	3	3.333333	4
6615011793976	4	0.044444	1.111111	2	2.753846	3	3.908546	4
6610012142537	2	0.022222	0.693627	1	1.855215	2	2.671712	3
5998011787810	3	0.033333	0.910684	1	2.333333	3	3.333333	4
5841011507528	2	0.022222	0.693627	1	1.855215	2	2.671712	3
6615011830334	1	0.011111	0.444444	1	1.265812	2	1.843162	2
5810011778545	2	0.022222	0.693627	1	1.855215	2	2.671712	3
5999013211549	1	0.011111	0.444444	1	1.265812	2	1.843162	2
5998013080909	1	0.011111	0.444444	1	1.265812	2	1.843162	2
6610011814214	3	0.033333	0.910684	1	2.333333	3	3.333333	4
6695012330927	1	0.011111	0.444444	1	1.265812	2	1.843162	2
1280011063368	2	0.022222	0.693627	1	1.855215	2	2.671712	3
5985012575597	6	0.066667	1.483163	2	3.495094	4	4.909307	5
5999012800729	2	0.022222	0.693627	1	1.855215	2	2.671712	3
6605005040935	2	0.022222	0.693627	1	1.855215	2	2.671712	3
6605008329691	2	0.022222	0.693627	1	1.855215	2	2.671712	3
5985011847881	2	0.022222	0.693627	1	1.855215	2	2.671712	3
5998011661331	2	0.022222	0.693627	1	1.855215	2	2.671712	3
5998012908614	5	0.055556	1.300912	2	3.137544	4	4.428539	5
6615012639957	2	0.022222	0.693627	1	1.855215	2	2.671712	3
6615011787652	2	0.022222	0.693627	1	1.855215	2	2.671712	3
6620011829328	2	0.022222	0.693627	1	1.855215	2	2.671712	3
6610013076363	2	0.022222	0.693627	1	1.855215	2	2.671712	3
5950011899159	5	0.055556	1.300912	2	3.137544	4	4.428539	5
6130011791848	4	0.044444	1.111111	2	2.753846	3	3.908546	4
5999011566072	2	0.022222	0.693627	1	1.855215	2	2.671712	3
6610012092505	2	0.022222	0.693627	1	1.855215	2	2.671712	3
6615006731261	2	0.022222	0.693627	1	1.855215	2	2.671712	3
5999012147410	2	0.022222	0.693627	1	1.855215	2	2.671712	3
1270012684611	2	0.022222	0.693627	1	1.855215	2	2.671712	3
1280012287365	1	0.011111	0.444444	1	1.265812	2	1.843162	2
5998012152817	1	0.011111	0.444444	1	1.265812	2	1.843162	2
1280011106016	1	0.011111	0.444444	1	1.265812	2	1.843162	2
5998011802139	1	0.011111	0.444444	1	1.265812	2	1.843162	2
5998012151816	1	0.011111	0.444444	1	1.265812	2	1.843162	2
6615012754675	1	0.011111	0.444444	1	1.265812	2	1.843162	2
6605012319757	1	0.011111	0.444444	1	1.265812	2	1.843162	2
5821001490676	5	0.055556	1.300912	2	3.137544	4	4.428539	5
5821010649794	7	0.077778	1.659695	2	3.832828	4	5.360353	6
6615011496398	2	0.022222	0.693627	1	1.855215	2	2.671712	3
6605010177730	2	0.022222	0.693627	1	1.855215	2	2.671712	3
6220010485183	2	0.022222	0.693627	1	1.855215	2	2.671712	3
1270008694784	2	0.022222	0.693627	1	1.855215	2	2.671712	3
5826013109882	18	0.2	3.414214	4	6.898979	7	9.348469	10
5985011540003	4	0.044444	1.111111	2	2.753846	3	3.908546	4
6610003715953	4	0.044444	1.111111	2	2.753846	3	3.908546	4
1680011572424	8	0.088889	1.831698	2	4.154875	5	5.787868	6
6645008805927	8	0.088889	1.831698	2	4.154875	5	5.787868	6
1270010801059	2	0.022222	0.693627	1	1.855215	2	2.671712	3
6605006208635	11	0.122222	2.327764	3	5.051931	6	6.966785	7

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6605010352009	4	0.044444	1.111111	2	2.753846	3	3.908546	4
1270010887589	2	0.022222	0.693627	1	1.855215	2	2.671712	3
1280009841063	7	0.077778	1.659695	2	3.832828	4	5.360353	6
5841012955125	1	0.011111	0.444444	1	1.265812	2	1.843162	2
5998011917008	5	0.055556	1.300912	2	3.137544	4	4.428539	5
6125006358795	6	0.066667	1.483163	2	3.495094	4	4.909307	5
5826005051675	4	0.044444	1.111111	2	2.753846	3	3.908546	4
5826006259201	5	0.055556	1.300912	2	3.137544	4	4.428539	5
5865011251667	2	0.022222	0.693627	1	1.855215	2	2.671712	3
6615006172878	2	0.022222	0.693627	1	1.855215	2	2.671712	3
7025011726541	5	0.055556	1.300912	2	3.137544	4	4.428539	5
5865013369220	4	0.044444	1.111111	2	2.753846	3	3.908546	4
5826010412044	2	0.022222	0.693627	1	1.855215	2	2.671712	3
5865013054887	2	0.022222	0.693627	1	1.855215	2	2.671712	3
4920002520162	2	0.022222	0.693627	1	1.855215	2	2.671712	3
6620011145760	2	0.022222	0.693627	1	1.855215	2	2.671712	3
4920002467225	4	0.044444	1.111111	2	2.753846	3	3.908546	4
4920002497148	2	0.022222	0.693627	1	1.855215	2	2.671712	3
6605008985597	20	0.222222	3.712934	4	7.3862	8	9.968189	10
1270012733859	1	0.011111	0.444444	1	1.265812	2	1.843162	2
1280010730473	6	0.066667	1.483163	2	3.495094	4	4.909307	5
5821012587581	1	0.011111	0.444444	1	1.265812	2	1.843162	2
5895010418257	6	0.066667	1.483163	2	3.495094	4	4.909307	5
6615010427835	3	0.033333	0.910684	1	2.333333	3	3.333333	4
1280011458646	8	0.088889	1.831698	2	4.154875	5	5.787868	6
5895010981156	10	0.111111	2.165204	3	4.762595	5	6.588337	7
4920004003763	1	0.011111	0.444444	1	1.265812	2	1.843162	2
6610009913858	4	0.044444	1.111111	2	2.753846	3	3.908546	4
6615005370580	12	0.133333	2.488034	3	5.333333	6	7.333333	8
6210007665189	4	0.044444	1.111111	2	2.753846	3	3.908546	4
6615012258214	6	0.066667	1.483163	2	3.495094	4	4.909307	5
5826005053242	2	0.022222	0.693627	1	1.855215	2	2.671712	3
4920012521095	6	0.066667	1.483163	2	3.495094	4	4.909307	5
5831000784969	3	0.033333	0.910684	1	2.333333	3	3.333333	4
1660005390090	2	0.022222	0.693627	1	1.855215	2	2.671712	3
5826010127084	2	0.022222	0.693627	1	1.855215	2	2.671712	3
6620013055344	14	0.155556	2.802775	3	5.876049	6	8.036296	9
5841011027549	2	0.022222	0.693627	1	1.855215	2	2.671712	3
4920004000241	2	0.022222	0.693627	1	1.855215	2	2.671712	3
4920004000242	2	0.022222	0.693627	1	1.855215	2	2.671712	3
5998011908295	4	0.044444	1.111111	2	2.753846	3	3.908546	4
5841010588862	6	0.066667	1.483163	2	3.495094	4	4.909307	5
5865010535396	5	0.055556	1.300912	2	3.137544	4	4.428539	5
5831002487225	4	0.044444	1.111111	2	2.753846	3	3.908546	4
5895011525214	9	0.1	2	2	4.464102	5	6.196152	7
5826002266029	4	0.044444	1.111111	2	2.753846	3	3.908546	4
6615012477293	2	0.022222	0.693627	1	1.855215	2	2.671712	3
5826008974122	2	0.022222	0.693627	1	1.855215	2	2.671712	3
1270012400088	2	0.022222	0.693627	1	1.855215	2	2.671712	3
6615011955288	2	0.022222	0.693627	1	1.855215	2	2.671712	3

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6760005587836	4	0.044444	1.111111	2	2.753846	3	3.908546	4
5821010771313	4	0.044444	1.111111	2	2.753846	3	3.908546	4
4920004265486	2	0.022222	0.693627	1	1.855215	2	2.671712	3
5865000758871	2	0.022222	0.693627	1	1.855215	2	2.671712	3
5831005384250	2	0.022222	0.693627	1	1.855215	2	2.671712	3
5865009523204	8	0.088889	1.831698	2	4.154875	5	5.787868	6
5998011917007	8	0.088889	1.831698	2	4.154875	5	5.787868	6
6695001516748	4	0.044444	1.111111	2	2.753846	3	3.908546	4
4920004630839	1	0.011111	0.444444	1	1.265812	2	1.843162	2
5831009523454	5	0.055556	1.300912	2	3.137544	4	4.428539	5
5826006786632	2	0.022222	0.693627	1	1.855215	2	2.671712	3
6615000656200	1	0.011111	0.444444	1	1.265812	2	1.843162	2
6615009224470	2	0.022222	0.693627	1	1.855215	2	2.671712	3
5821012272153	2	0.022222	0.693627	1	1.855215	2	2.671712	3
5826005051020	3	0.033333	0.910684	1	2.333333	3	3.333333	4
5831005195882	2	0.022222	0.693627	1	1.855215	2	2.671712	3
5985002244175	2	0.022222	0.693627	1	1.855215	2	2.671712	3
1260012372273	6	0.066667	1.483163	2	3.495094	4	4.909307	5
1260012511150	51	0.566667	8.047143	9	13.91288	14	18.03598	19
1270001114649	2	0.022222	0.693627	1	1.855215	2	2.671712	3
1270001358343	3	0.033333	0.910684	1	2.333333	3	3.333333	4
1270002135877	6	0.066667	1.483163	2	3.495094	4	4.909307	5
1270004512162	12	0.133333	2.488034	3	5.333333	6	7.333333	8
1270010405948	10	0.111111	2.165204	3	4.762595	5	6.588337	7
1270010469884	60	0.666667	9.248656	10	15.61094	16	20.08307	21
1270010932256	18	0.2	3.414214	4	6.898979	7	9.348469	10
1270010940527	14	0.155556	2.802775	3	5.876049	6	8.036296	9
1270010948505	12	0.133333	2.488034	3	5.333333	6	7.333333	8
1270011002302	6	0.066667	1.483163	2	3.495094	4	4.909307	5
1270011022962	8	0.088889	1.831698	2	4.154875	5	5.787868	6
1270011022963	2	0.022222	0.693627	1	1.855215	2	2.671712	3
1270011022966	3	0.033333	0.910684	1	2.333333	3	3.333333	4
1270011126862	35	0.388889	5.860915	6	10.72019	11	14.13584	15
1270011229955	5	0.055556	1.300912	2	3.137544	4	4.428539	5
1270011838987	6	0.066667	1.483163	2	3.495094	4	4.909307	5
1270011997430	18	0.2	3.414214	4	6.898979	7	9.348469	10
1270012223829	5	0.055556	1.300912	2	3.137544	4	4.428539	5
1270012319800	39	0.433333	6.414999	7	11.54444	12	15.14999	16
1270012330011	129	1.433333	18.11927	19	27.44821	28	34.00565	35
1270012352370	24	0.266667	4.29966	5	8.323521	9	11.15195	12
1270012383662	124	1.377778	17.48962	18	26.63598	27	33.06508	34
1270012566538	42	0.466667	6.826914	7	12.14998	13	15.89164	16
1270012740543	2	0.022222	0.693627	1	1.855215	2	2.671712	3
1270012766449	5	0.055556	1.300912	2	3.137544	4	4.428539	5
1270013093077	20	0.222222	3.712934	4	7.3862	8	9.968189	10
1270013225249	2	0.022222	0.693627	1	1.855215	2	2.671712	3
1270013308895	2	0.022222	0.693627	1	1.855215	2	2.671712	3
1270013333608	33	0.366667	5.581521	6	10.29992	11	13.61654	14
1270013590877	6	0.066667	1.483163	2	3.495094	4	4.909307	5
1270013624867	3	0.033333	0.910684	1	2.333333	3	3.333333	4

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1270992512706	24	0.266667	4.29966	5	8.323521	9	11.15195	12
1270997468162	2	0.022222	0.693627	1	1.855215	2	2.671712	3
1270997714187	4	0.044444	1.111111	2	2.753846	3	3.908546	4
1280001596180	30	0.333333	5.159075	6	9.657889	10	12.82017	13
1280001596185	55	0.611111	8.583177	9	14.6746	15	18.95634	19
1280001866244	10	0.111111	2.165204	3	4.762595	5	6.588337	7
1280001866298	12	0.133333	2.488034	3	5.333333	6	7.333333	8
1280002501236	27	0.3	4.732051	5	9	9	12	12
1280004050630	2	0.022222	0.693627	1	1.855215	2	2.671712	3
1280004050631	2	0.022222	0.693627	1	1.855215	2	2.671712	3
1280010423952	2	0.022222	0.693627	1	1.855215	2	2.671712	3
1280011042962	10	0.111111	2.165204	3	4.762595	5	6.588337	7
1280011163832	14	0.155556	2.802775	3	5.876049	6	8.036296	9
1280011207216	11	0.122222	2.327764	3	5.051931	6	6.966785	7
1280011216879	4	0.044444	1.111111	2	2.753846	3	3.908546	4
1280011226908	33	0.366667	5.581521	6	10.29992	11	13.61654	14
1280011509022	47	0.522222	7.50744	8	13.13845	14	17.09656	18
1280011512272	27	0.3	4.732051	5	9	9	12	12
1280011513174	5	0.055556	1.300912	2	3.137544	4	4.428539	5
1280011730534	16	0.177778	3.111111	4	6.39658	7	8.705981	9
1280011826322	10	0.111111	2.165204	3	4.762595	5	6.588337	7
1280011882610	18	0.2	3.414214	4	6.898979	7	9.348469	10
1280012261145	5	0.055556	1.300912	2	3.137544	4	4.428539	5
1280012270719	17	0.188889	3.263257	4	6.649841	7	9.030317	10
1280012287260	19	0.211111	3.564077	4	7.144334	8	9.660946	10
1280012287261	10	0.111111	2.165204	3	4.762595	5	6.588337	7
1280012302685	26	0.288889	4.588562	5	8.776729	9	11.72065	12
1280012804855	1	0.011111	0.444444	1	1.265812	2	1.843162	2
1280012850599	7	0.077778	1.659695	2	3.832828	4	5.360353	6
1280013200787	19	0.211111	3.564077	4	7.144334	8	9.660946	10
1290010800203	2	0.022222	0.693627	1	1.855215	2	2.671712	3
1290011091499	80	0.888889	11.87031	12	19.21684	20	24.38082	25
1290011103806	6	0.066667	1.483163	2	3.495094	4	4.909307	5
1290012279260	17	0.188889	3.263257	4	6.649841	7	9.030317	10
1290012403376	2	0.022222	0.693627	1	1.855215	2	2.671712	3
1290012978068	11	0.122222	2.327764	3	5.051931	6	6.966785	7
1290013223711	11	0.122222	2.327764	3	5.051931	6	6.966785	7
1290013765449	9	0.1	2	2	4.464102	5	6.196152	7
1630010182004	12	0.133333	2.488034	3	5.333333	6	7.333333	8
1660011374105	9	0.1	2	2	4.464102	5	6.196152	7
1660012803132	4	0.044444	1.111111	2	2.753846	3	3.908546	4
1680001238167	10	0.111111	2.165204	3	4.762595	5	6.588337	7
1680008699545	13	0.144444	2.646295	3	5.607776	6	7.689442	8
1680010041244	1	0.011111	0.444444	1	1.265812	2	1.843162	2
1680010325251	19	0.211111	3.564077	4	7.144334	8	9.660946	10
1680010652355	23	0.255556	4.154166	5	8.093305	9	10.86218	11
1680010855984	4	0.044444	1.111111	2	2.753846	3	3.908546	4
1680011390166	7	0.077778	1.659695	2	3.832828	4	5.360353	6
1680011596742	52	0.577778	8.181479	9	14.10444	15	18.26777	19
4810013353160	4	0.044444	1.111111	2	2.753846	3	3.908546	4

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4920000782418	20	0.222222	3.712934	4	7.3862	8	9.968189	10
4920001344902	18	0.2	3.414214	4	6.898979	7	9.348469	10
4920002391230	5	0.055556	1.300912	2	3.137544	4	4.428539	5
4920002399000	3	0.033333	0.910684	1	2.333333	3	3.333333	4
4920002487123	2	0.022222	0.693627	1	1.855215	2	2.671712	3
4920002497147	6	0.066667	1.483163	2	3.495094	4	4.909307	5
4920002497149	8	0.088889	1.831698	2	4.154875	5	5.787868	6
4920002497153	10	0.111111	2.165204	3	4.762595	5	6.588337	7
4920002497154	6	0.066667	1.483163	2	3.495094	4	4.909307	5
4920004000243	2	0.022222	0.693627	1	1.855215	2	2.671712	3
4920004003765	2	0.022222	0.693627	1	1.855215	2	2.671712	3
4920004206295	6	0.066667	1.483163	2	3.495094	4	4.909307	5
4920004868836	16	0.177778	3.111111	4	6.39658	7	8.705981	9
4920004896504	14	0.155556	2.802775	3	5.876049	6	8.036296	9
4920005639126	9	0.1	2	2	4.464102	5	6.196152	7
4920010347681	31	0.344444	5.300366	6	9.873545	10	13.0881	14
4920011174366	4	0.044444	1.111111	2	2.753846	3	3.908546	4
4920011185129	18	0.2	3.414214	4	6.898979	7	9.348469	10
4920011548792	12	0.133333	2.488034	3	5.333333	6	7.333333	8
4920011548820	8	0.088889	1.831698	2	4.154875	5	5.787868	6
4920011850754	16	0.177778	3.111111	4	6.39658	7	8.705981	9
4920011850755	4	0.044444	1.111111	2	2.753846	3	3.908546	4
4920011850756	8	0.088889	1.831698	2	4.154875	5	5.787868	6
4920011902868	1	0.011111	0.444444	1	1.265812	2	1.843162	2
4920012007194	10	0.111111	2.165204	3	4.762595	5	6.588337	7
4920012034183	8	0.088889	1.831698	2	4.154875	5	5.787868	6
4920012098963	2	0.022222	0.693627	1	1.855215	2	2.671712	3
4920012098968	2	0.022222	0.693627	1	1.855215	2	2.671712	3
4920012100966	2	0.022222	0.693627	1	1.855215	2	2.671712	3
4920012100969	1	0.011111	0.444444	1	1.265812	2	1.843162	2
4920012521038	16	0.177778	3.111111	4	6.39658	7	8.705981	9
4920012521094	15	0.166667	2.957661	3	6.138803	7	8.374871	9
4920012521096	2	0.022222	0.693627	1	1.855215	2	2.671712	3
4920012521097	7	0.077778	1.659695	2	3.832828	4	5.360353	6
4920012767758	3	0.033333	0.910684	1	2.333333	3	3.333333	4
4920012802786	6	0.066667	1.483163	2	3.495094	4	4.909307	5
4920012810250	5	0.055556	1.300912	2	3.137544	4	4.428539	5
4920012917299	5	0.055556	1.300912	2	3.137544	4	4.428539	5
4920013112811	3	0.033333	0.910684	1	2.333333	3	3.333333	4
4920013126007	3	0.033333	0.910684	1	2.333333	3	3.333333	4
5810000613386	211	2.344444	28.28639	29	40.21744	41	48.60394	49
5810004490154	40	0.444444	6.55263	7	11.74741	12	15.3989	16
5810010269624	63	0.7	9.645751	10	16.16515	17	20.74773	21
5810010508115	173	1.922222	23.60654	24	34.40994	35	42.00379	43
5810010508116	27	0.3	4.732051	5	9	9	12	12
5810010509968	18	0.2	3.414214	4	6.898979	7	9.348469	10
5810010842200	17	0.188889	3.263257	4	6.649841	7	9.030317	10
5810011734045	4	0.044444	1.111111	2	2.753846	3	3.908546	4
5810011786995	2	0.022222	0.693627	1	1.855215	2	2.671712	3
5810011790665	4	0.044444	1.111111	2	2.753846	3	3.908546	4

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5810012737820	85	0.944444	12.51763	13	20.09026	21	25.41316	26
5815010550357	6	0.066667	1.483163	2	3.495094	4	4.909307	5
5815010564186	11	0.122222	2.327764	3	5.051931	6	6.966785	7
5815010575286	6	0.066667	1.483163	2	3.495094	4	4.909307	5
5815011251526	15	0.166667	2.957661	3	6.138803	7	8.374871	9
5821001866309	67	0.744444	10.1729	11	16.89608	17	21.62189	22
5821010031336	5	0.055556	1.300912	2	3.137544	4	4.428539	5
5821010276657	1	0.011111	0.444444	1	1.265812	2	1.843162	2
5821010440457	3	0.033333	0.910684	1	2.333333	3	3.333333	4
5821010498535	18	0.2	3.414214	4	6.898979	7	9.348469	10
5821010569616	14	0.155556	2.802775	3	5.876049	6	8.036296	9
5821010569617	9	0.1	2	2	4.464102	5	6.196152	7
5821010621019	214	2.377778	28.65402	29	40.66959	41	49.1155	50
5821010651677	25	0.277778	4.444444	5	8.55128	9	11.43803	12
5821010676728	6	0.066667	1.483163	2	3.495094	4	4.909307	5
5821010704695	34	0.377778	5.721428	6	10.51078	11	13.87728	14
5821010772503	2	0.022222	0.693627	1	1.855215	2	2.671712	3
5821010976218	3	0.033333	0.910684	1	2.333333	3	3.333333	4
5821010979133	11	0.122222	2.327764	3	5.051931	6	6.966785	7
5821011015333	8	0.088889	1.831698	2	4.154875	5	5.787868	6
5821011038155	47	0.522222	7.50744	8	13.13845	14	17.09656	18
5821011046155	11	0.122222	2.327764	3	5.051931	6	6.966785	7
5821011136476	73	0.811111	10.95911	11	17.97688	18	22.90976	23
5821011137509	4	0.044444	1.111111	2	2.753846	3	3.908546	4
5821011137510	8	0.088889	1.831698	2	4.154875	5	5.787868	6
5821011365467	6	0.066667	1.483163	2	3.495094	4	4.909307	5
5821011369512	8	0.088889	1.831698	2	4.154875	5	5.787868	6
5821011376301	39	0.433333	6.414999	7	11.54444	12	15.14999	16
5821011416133	12	0.133333	2.488034	3	5.333333	6	7.333333	8
5821011659342	38	0.422222	6.277027	7	11.34027	12	14.8993	15
5821011948160	8	0.088889	1.831698	2	4.154875	5	5.787868	6
5821012133980	15	0.166667	2.957661	3	6.138803	7	8.374871	9
5821012137333	20	0.222222	3.712934	4	7.3862	8	9.968189	10
5821012287058	339	3.766667	43.80398	44	58.92696	59	69.5571	70
5821012413149	8	0.088889	1.831698	2	4.154875	5	5.787868	6
5821012587579	71	0.788889	10.69761	11	17.61857	18	22.48341	23
5821012587580	10	0.111111	2.165204	3	4.762595	5	6.588337	7
5821012866543	48	0.533333	7.642734	8	13.33333	14	17.33333	18
5821013115105	33	0.366667	5.581521	6	10.29992	11	13.61654	14
5821013117551	18	0.2	3.414214	4	6.898979	7	9.348469	10
5821013123525	39	0.433333	6.414999	7	11.54444	12	15.14999	16
5826000606055	5	0.055556	1.300912	2	3.137544	4	4.428539	5
5826001345966	21	0.233333	3.860859	4	7.624836	8	10.27059	11
5826001345967	4	0.044444	1.111111	2	2.753846	3	3.908546	4
5826001345968	9	0.1	2	2	4.464102	5	6.196152	7
5826001345970	10	0.111111	2.165204	3	4.762595	5	6.588337	7
5826001345971	51	0.566667	8.047143	9	13.91288	14	18.03598	19
5826001345972	45	0.5	7.236068	8	12.74597	13	16.61895	17
5826001345973	34	0.377778	5.721428	6	10.51078	11	13.87728	14
5826001345974	9	0.1	2	2	4.464102	5	6.196152	7

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5826001345976	19	0.211111	3.564077	4	7.144334	8	9.660946	10
5826001345977	138	1.533333	19.24911	20	28.89799	29	35.68032	36
5826001345978	14	0.155556	2.802775	3	5.876049	6	8.036296	9
5826001345979	37	0.411111	6.138699	7	11.13488	12	14.64676	15
5826001345982	16	0.177778	3.111111	4	6.39658	7	8.705981	9
5826001345984	11	0.122222	2.327764	3	5.051931	6	6.966785	7
5826001345985	16	0.177778	3.111111	4	6.39658	7	8.705981	9
5826001351888	4	0.044444	1.111111	2	2.753846	3	3.908546	4
5826002265171	8	0.088889	1.831698	2	4.154875	5	5.787868	6
5826002266030	5	0.055556	1.300912	2	3.137544	4	4.428539	5
5826002411011	45	0.5	7.236068	8	12.74597	13	16.61895	17
5826002750612	3	0.033333	0.910684	1	2.333333	3	3.333333	4
5826002755781	28	0.311111	4.874945	5	9.221212	10	12.27626	13
5826003191378	12	0.133333	2.488034	3	5.333333	6	7.333333	8
5826004445276	17	0.188889	3.263257	4	6.649841	7	9.030317	10
5826005050793	29	0.322222	5.017277	6	9.440475	10	12.5496	13
5826005050992	19	0.211111	3.564077	4	7.144334	8	9.660946	10
5826005051873	4	0.044444	1.111111	2	2.753846	3	3.908546	4
5826005052222	3	0.033333	0.910684	1	2.333333	3	3.333333	4
5826005053094	32	0.355556	5.441174	6	10.08753	11	13.35351	14
5826005053097	8	0.088889	1.831698	2	4.154875	5	5.787868	6
5826005356629	13	0.144444	2.646295	3	5.607776	6	7.689442	8
5826006045665	2	0.022222	0.693627	1	1.855215	2	2.671712	3
5826006269874	3	0.033333	0.910684	1	2.333333	3	3.333333	4
5826007210168	5	0.055556	1.300912	2	3.137544	4	4.428539	5
5826009178679	62	0.688889	9.513558	10	15.98101	16	20.52707	21
5826009731914	17	0.188889	3.263257	4	6.649841	7	9.030317	10
5826009731916	30	0.333333	5.159075	6	9.657889	10	12.82017	13
5826009902331	9	0.1	2	2	4.464102	5	6.196152	7
5826009902332	1	0.011111	0.444444	1	1.265812	2	1.843162	2
5826010121919	39	0.433333	6.414999	7	11.54444	12	15.14999	16
5826010121938	307	3.411111	39.95158	40	54.3431	55	64.45909	65
5826010124864	64	0.711111	9.777778	10	16.34872	17	20.96752	21
5826010127085	1	0.011111	0.444444	1	1.265812	2	1.843162	2
5826010130861	3	0.033333	0.910684	1	2.333333	3	3.333333	4
5826010143656	2	0.022222	0.693627	1	1.855215	2	2.671712	3
5826010211744	13	0.144444	2.646295	3	5.607776	6	7.689442	8
5826010329930	10	0.111111	2.165204	3	4.762595	5	6.588337	7
5826010409798	46	0.511111	7.371888	8	12.94267	13	16.85845	17
5826010456683	2	0.022222	0.693627	1	1.855215	2	2.671712	3
5826010603893	10	0.111111	2.165204	3	4.762595	5	6.588337	7
5826010784935	8	0.088889	1.831698	2	4.154875	5	5.787868	6
5826011244793	6	0.066667	1.483163	2	3.495094	4	4.909307	5
5826011945731	1	0.011111	0.444444	1	1.265812	2	1.843162	2
5826012368622	14	0.155556	2.802775	3	5.876049	6	8.036296	9
5826012371912	18	0.2	3.414214	4	6.898979	7	9.348469	10
5826013512143	4	0.044444	1.111111	2	2.753846	3	3.908546	4
5831000611577	29	0.322222	5.017277	6	9.440475	10	12.5496	13
5831001025583	10	0.111111	2.165204	3	4.762595	5	6.588337	7
5831004341287	6	0.066667	1.483163	2	3.495094	4	4.909307	5

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5831004952163	5	0.055556	1.300912	2	3.137544	4	4.428539	5
5831005195881	9	0.1	2	2	4.464102	5	6.196152	7
5831005195883	158	1.755556	21.74549	22	32.06992	33	39.3271	40
5831005235328	30	0.333333	5.159075	6	9.657889	10	12.82017	13
5831005391714	14	0.155556	2.802775	3	5.876049	6	8.036296	9
5831008093179	6	0.066667	1.483163	2	3.495094	4	4.909307	5
5831008093180	58	0.644444	8.983035	9	15.23838	16	19.63535	20
5831008802834	33	0.366667	5.581521	6	10.29992	11	13.61654	14
5831009993916	33	0.366667	5.581521	6	10.29992	11	13.61654	14
5831012221891	4	0.044444	1.111111	2	2.753846	3	3.908546	4
5836010512886	91	1.011111	13.29091	14	21.12625	22	26.63382	27
5836012872061	4	0.044444	1.111111	2	2.753846	3	3.908546	4
5840010073959	23	0.255556	4.154166	5	8.093305	9	10.86218	11
5841000977252	24	0.266667	4.29966	5	8.323521	9	11.15195	12
5841001345975	31	0.344444	5.300366	6	9.873545	10	13.0881	14
5841004699698	4	0.044444	1.111111	2	2.753846	3	3.908546	4
5841008047159	50	0.555556	7.912578	8	13.72052	14	17.803	18
5841009743254	25	0.277778	4.444444	5	8.55128	9	11.43803	12
5841010042227	24	0.266667	4.29966	5	8.323521	9	11.15195	12
5841010537872	39	0.433333	6.414999	7	11.54444	12	15.14999	16
5841010537874	35	0.388889	5.860915	6	10.72019	11	14.13584	15
5841010568647	139	1.544444	19.37439	20	29.05816	30	35.86502	36
5841010693756	20	0.222222	3.712934	4	7.3862	8	9.968189	10
5841010781344	33	0.366667	5.581521	6	10.29992	11	13.61654	14
5841010883039	8	0.088889	1.831698	2	4.154875	5	5.787868	6
5841010891022	12	0.133333	2.488034	3	5.333333	6	7.333333	8
5841010891064	55	0.611111	8.583177	9	14.6746	15	18.95634	19
5841010918929	67	0.744444	10.1729	11	16.89608	17	21.62189	22
5841010931491	20	0.222222	3.712934	4	7.3862	8	9.968189	10
5841010963945	3	0.033333	0.910684	1	2.333333	3	3.333333	4
5841010964833	5	0.055556	1.300912	2	3.137544	4	4.428539	5
5841011007363	7	0.077778	1.659695	2	3.832828	4	5.360353	6
5841011274935	48	0.533333	7.642734	8	13.33333	14	17.33333	18
5841011314516	9	0.1	2	2	4.464102	5	6.196152	7
5841011423767	5	0.055556	1.300912	2	3.137544	4	4.428539	5
5841011423785	16	0.177778	3.111111	4	6.39658	7	8.705981	9
5841011435358	7	0.077778	1.659695	2	3.832828	4	5.360353	6
5841011435778	27	0.3	4.732051	5	9	9	12	12
5841011435910	10	0.111111	2.165204	3	4.762595	5	6.588337	7
5841011435912	163	1.811111	22.36683	23	32.85334	33	40.22446	41
5841012029769	20	0.222222	3.712934	4	7.3862	8	9.968189	10
5841012062071	4	0.044444	1.111111	2	2.753846	3	3.908546	4
5841012204422	3	0.033333	0.910684	1	2.333333	3	3.333333	4
5841012412292	9	0.1	2	2	4.464102	5	6.196152	7
5841012644422	22	0.244444	4.007916	5	7.86047	8	10.56848	11
5841012827090	80	0.888889	11.87031	12	19.21684	20	24.38082	25
5841012827091	78	0.866667	11.61059	12	18.86471	19	23.96373	24
5841012827093	235	2.611111	31.22101	32	43.81234	44	52.66295	53
5841012830065	48	0.533333	7.642734	8	13.33333	14	17.33333	18
5841012860706	19	0.211111	3.564077	4	7.144334	8	9.660946	10

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5841012918393	25	0.277778	4.444444	5	8.55128	9	11.43803	12
5841013255058	4	0.044444	1.111111	2	2.753846	3	3.908546	4
5841013396857	30	0.333333	5.159075	6	9.657889	10	12.82017	13
5865000999351	12	0.133333	2.488034	3	5.333333	6	7.333333	8
5865000999352	5	0.055556	1.300912	2	3.137544	4	4.428539	5
5865007836261	4	0.044444	1.111111	2	2.753846	3	3.908546	4
5865010042118	3	0.033333	0.910684	1	2.333333	3	3.333333	4
5865010211647	9	0.1	2	2	4.464102	5	6.196152	7
5865010569896	16	0.177778	3.111111	4	6.39658	7	8.705981	9
5865010650173	2	0.022222	0.693627	1	1.855215	2	2.671712	3
5865010775162	8	0.088889	1.831698	2	4.154875	5	5.787868	6
5865010805675	37	0.411111	6.138699	7	11.13488	12	14.64676	15
5865010876670	72	0.8	10.82843	11	17.79796	18	22.69694	23
5865010887202	22	0.244444	4.007916	5	7.86047	8	10.56848	11
5865010891745	4	0.044444	1.111111	2	2.753846	3	3.908546	4
5865011003768	8	0.088889	1.831698	2	4.154875	5	5.787868	6
5865011003770	10	0.111111	2.165204	3	4.762595	5	6.588337	7
5865011086511	4	0.044444	1.111111	2	2.753846	3	3.908546	4
5865011106043	56	0.622222	8.71666	9	14.86321	15	19.1837	20
5865011253823	9	0.1	2	2	4.464102	5	6.196152	7
5865011449320	18	0.2	3.414214	4	6.898979	7	9.348469	10
5865011487930	56	0.622222	8.71666	9	14.86321	15	19.1837	20
5865011521792	79	0.877778	11.74051	12	19.04098	20	24.17258	25
5865012110140	24	0.266667	4.29966	5	8.323521	9	11.15195	12
5865012112335	8	0.088889	1.831698	2	4.154875	5	5.787868	6
5865012340860	9	0.1	2	2	4.464102	5	6.196152	7
5865012348470	88	0.977778	12.90472	13	20.60983	21	26.02585	27
5865012348471	58	0.644444	8.983035	9	15.23838	16	19.63535	20
5865012348472	131	1.455556	18.37073	19	27.77171	28	34.37978	35
5865012365734	110	1.222222	15.71825	16	24.33282	25	30.38812	31
5865012556889	87	0.966667	12.77579	13	20.437	21	25.82216	26
5865012698062	3	0.033333	0.910684	1	2.333333	3	3.333333	4
5865012702234	1	0.011111	0.444444	1	1.265812	2	1.843162	2
5865013077305	132	1.466667	18.49638	19	27.93317	28	34.56642	35
5865013088894	1	0.011111	0.444444	1	1.265812	2	1.843162	2
5865013100163	2	0.022222	0.693627	1	1.855215	2	2.671712	3
5865013115110	43	0.477778	6.963591	7	12.34966	13	16.13559	17
5865013249101	26	0.288889	4.588562	5	8.776729	9	11.72065	12
5865013249103	100	1.111111	14.444444	15	22.65812	23	28.43162	29
5865013252225	85	0.944444	12.51763	13	20.09026	21	25.41316	26
5895000395432	30	0.333333	5.159075	6	9.657889	10	12.82017	13
5895000395434	16	0.177778	3.111111	4	6.39658	7	8.705981	9
5895000395441	16	0.177778	3.111111	4	6.39658	7	8.705981	9
5895000395455	5	0.055556	1.300912	2	3.137544	4	4.428539	5
5895000395456	12	0.133333	2.488034	3	5.333333	6	7.333333	8
5895000395461	12	0.133333	2.488034	3	5.333333	6	7.333333	8
5895000395486	22	0.244444	4.007916	5	7.86047	8	10.56848	11
5895000894521	7	0.077778	1.659695	2	3.832828	4	5.360353	6
5895000894522	223	2.477778	29.75551	30	42.02113	43	50.64281	51
5895001491319	31	0.344444	5.300366	6	9.873545	10	13.0881	14

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5895001602198	182	2.022222	24.71913	25	35.79998	36	43.58887	44
5895002625018	6	0.066667	1.483163	2	3.495094	4	4.909307	5
5895003037577	4	0.044444	1.111111	2	2.753846	3	3.908546	4
5895003278781	12	0.133333	2.488034	3	5.333333	6	7.333333	8
5895003409619	9	0.1	2	2	4.464102	5	6.196152	7
5895003477178	10	0.111111	2.165204	3	4.762595	5	6.588337	7
5895003496061	2	0.022222	0.693627	1	1.855215	2	2.671712	3
5895004263144	4	0.044444	1.111111	2	2.753846	3	3.908546	4
5895005051016	4	0.044444	1.111111	2	2.753846	3	3.908546	4
5895005071381	11	0.122222	2.327764	3	5.051931	6	6.966785	7
5895005391911	2	0.022222	0.693627	1	1.855215	2	2.671712	3
5895008100189	5	0.055556	1.300912	2	3.137544	4	4.428539	5
5895009001196	15	0.166667	2.957661	3	6.138803	7	8.374871	9
5895009049816	12	0.133333	2.488034	3	5.333333	6	7.333333	8
5895009992411	44	0.488889	7.099972	8	12.54831	13	16.37801	17
5895010444987	4	0.044444	1.111111	2	2.753846	3	3.908546	4
5895010485194	4	0.044444	1.111111	2	2.753846	3	3.908546	4
5895010512651	2	0.022222	0.693627	1	1.855215	2	2.671712	3
5895010533579	3	0.033333	0.910684	1	2.333333	3	3.333333	4
5895010537839	26	0.288889	4.588562	5	8.776729	9	11.72065	12
5895010550392	5	0.055556	1.300912	2	3.137544	4	4.428539	5
5895010620002	4	0.044444	1.111111	2	2.753846	3	3.908546	4
5895010701444	3	0.033333	0.910684	1	2.333333	3	3.333333	4
5895010720788	18	0.2	3.414214	4	6.898979	7	9.348469	10
5895010891808	12	0.133333	2.488034	3	5.333333	6	7.333333	8
5895010959593	20	0.222222	3.712934	4	7.3862	8	9.968189	10
5895011074586	52	0.577778	8.181479	9	14.10444	15	18.26777	19
5895011126380	276	3.066667	36.20442	37	49.84999	50	59.44166	60
5895011142469	2	0.022222	0.693627	1	1.855215	2	2.671712	3
5895011287267	27	0.3	4.732051	5	9	9	12	12
5895011327476	14	0.155556	2.802775	3	5.876049	6	8.036296	9
5895011349225	2	0.022222	0.693627	1	1.855215	2	2.671712	3
5895011354647	6	0.066667	1.483163	2	3.495094	4	4.909307	5
5895011420803	22	0.244444	4.007916	5	7.86047	8	10.56848	11
5895011435443	19	0.211111	3.564077	4	7.144334	8	9.660946	10
5895011479137	8	0.088889	1.831698	2	4.154875	5	5.787868	6
5895011488852	2	0.022222	0.693627	1	1.855215	2	2.671712	3
5895011521514	4	0.044444	1.111111	2	2.753846	3	3.908546	4
5895011549125	170	1.888889	23.23502	24	33.94434	34	41.47207	42
5895011631762	16	0.177778	3.111111	4	6.39658	7	8.705981	9
5895011736012	10	0.111111	2.165204	3	4.762595	5	6.588337	7
5895011790505	2	0.022222	0.693627	1	1.855215	2	2.671712	3
5895011875699	2	0.022222	0.693627	1	1.855215	2	2.671712	3
5895012090144	11	0.122222	2.327764	3	5.051931	6	6.966785	7
5895012108603	3	0.033333	0.910684	1	2.333333	3	3.333333	4
5895012171470	4	0.044444	1.111111	2	2.753846	3	3.908546	4
5895012199387	33	0.366667	5.581521	6	10.29992	11	13.61654	14
5895012242177	80	0.888889	11.87031	12	19.21684	20	24.38082	25
5895012278845	25	0.277778	4.444444	5	8.55128	9	11.43803	12
5895012301075	14	0.155556	2.802775	3	5.876049	6	8.036296	9

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5895012410075	4	0.044444	1.111111	2	2.753846	3	3.908546	4
5895012422033	24	0.266667	4.29966	5	8.323521	9	11.15195	12
5895012467910	10	0.111111	2.165204	3	4.762595	5	6.588337	7
5895012489012	12	0.133333	2.488034	3	5.333333	6	7.333333	8
5895012728047	71	0.788889	10.69761	11	17.61857	18	22.48341	23
5895012731990	22	0.244444	4.007916	5	7.86047	8	10.56848	11
5895012834089	8	0.088889	1.831698	2	4.154875	5	5.787868	6
5895012919918	42	0.466667	6.826914	7	12.14998	13	15.89164	16
5895013102157	79	0.877778	11.74051	12	19.04098	20	24.17258	25
5895013296324	63	0.7	9.645751	10	16.16515	17	20.74773	21
5895013455140	8	0.088889	1.831698	2	4.154875	5	5.787868	6
5895013558414	3	0.033333	0.910684	1	2.333333	3	3.333333	4
5930010920386	61	0.677778	9.381194	10	15.79628	16	20.30553	21
5930011729448	31	0.344444	5.300366	6	9.873545	10	13.0881	14
5945011709363	46	0.511111	7.371888	8	12.94267	13	16.85845	17
5955010032850	6	0.066667	1.483163	2	3.495094	4	4.909307	5
5955010226196	4	0.044444	1.111111	2	2.753846	3	3.908546	4
5960012372335	6	0.066667	1.483163	2	3.495094	4	4.909307	5
5985003495877	16	0.177778	3.111111	4	6.39658	7	8.705981	9
5985005205875	14	0.155556	2.802775	3	5.876049	6	8.036296	9
5985008840704	12	0.133333	2.488034	3	5.333333	6	7.333333	8
5985010537675	9	0.1	2	2	4.464102	5	6.196152	7
5985010537676	13	0.144444	2.646295	3	5.607776	6	7.689442	8
5985010890737	33	0.366667	5.581521	6	10.29992	11	13.61654	14
5985010932174	4	0.044444	1.111111	2	2.753846	3	3.908546	4
5985011041424	53	0.588889	8.315592	9	14.29524	15	18.49841	19
5985011273039	4	0.044444	1.111111	2	2.753846	3	3.908546	4
5985011464630	7	0.077778	1.659695	2	3.832828	4	5.360353	6
5985011515848	44	0.488889	7.099972	8	12.54831	13	16.37801	17
5985012058599	10	0.111111	2.165204	3	4.762595	5	6.588337	7
5985012122950	68	0.755556	10.30429	11	17.07746	18	21.83841	22
5985012199437	2	0.022222	0.693627	1	1.855215	2	2.671712	3
5985012822882	6	0.066667	1.483163	2	3.495094	4	4.909307	5
5985012827891	109	1.211111	15.59121	16	24.16654	25	30.19425	31
5985012827892	21	0.233333	3.860859	4	7.624836	8	10.27059	11
5985012902072	46	0.511111	7.371888	8	12.94267	13	16.85845	17
5985013083647	6	0.066667	1.483163	2	3.495094	4	4.909307	5
5985013194675	2	0.022222	0.693627	1	1.855215	2	2.671712	3
5998011230046	10	0.111111	2.165204	3	4.762595	5	6.588337	7
5998011480712	6	0.066667	1.483163	2	3.495094	4	4.909307	5
5998011896233	174	1.933333	23.7303	24	34.56488	35	42.18065	43
5998011908294	18	0.2	3.414214	4	6.898979	7	9.348469	10
5998011908296	16	0.177778	3.111111	4	6.39658	7	8.705981	9
5998011908297	8	0.088889	1.831698	2	4.154875	5	5.787868	6
5998011909305	7	0.077778	1.659695	2	3.832828	4	5.360353	6
5998011909306	11	0.122222	2.327764	3	5.051931	6	6.966785	7
5998011909307	15	0.166667	2.957661	3	6.138803	7	8.374871	9
5998011917006	12	0.133333	2.488034	3	5.333333	6	7.333333	8
5998011948121	5	0.055556	1.300912	2	3.137544	4	4.428539	5
5998012898541	15	0.166667	2.957661	3	6.138803	7	8.374871	9

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5998012898947	1	0.011111	0.444444	1	1.265812	2	1.843162	2
5998013227746	17	0.188889	3.263257	4	6.649841	7	9.030317	10
5998013309073	19	0.211111	3.564077	4	7.144334	8	9.660946	10
5999010803978	27	0.3	4.732051	5	9	9	12	12
6110005390411	13	0.144444	2.646295	3	5.607776	6	7.689442	8
6110010498639	15	0.166667	2.957661	3	6.138803	7	8.374871	9
6110011976781	10	0.111111	2.165204	3	4.762595	5	6.588337	7
6130000410372	16	0.177778	3.111111	4	6.39658	7	8.705981	9
6130007584485	11	0.122222	2.327764	3	5.051931	6	6.966785	7
6130010548810	14	0.155556	2.802775	3	5.876049	6	8.036296	9
6130010568665	66	0.733333	10.04135	11	16.71416	17	21.40458	22
6130010573396	6	0.066667	1.483163	2	3.495094	4	4.909307	5
6130012562076	20	0.222222	3.712934	4	7.3862	8	9.968189	10
6320001342251	7	0.077778	1.659695	2	3.832828	4	5.360353	6
6340003327300	20	0.222222	3.712934	4	7.3862	8	9.968189	10
6340010557374	17	0.188889	3.263257	4	6.649841	7	9.030317	10
6605001491134	79	0.877778	11.74051	12	19.04098	20	24.17258	25
6605004479654	9	0.1	2	2	4.464102	5	6.196152	7
6605005012379	53	0.588889	8.315592	9	14.29524	15	18.49841	19
6605005569318	64	0.711111	9.777778	10	16.34872	17	20.96752	21
6605005578206	2	0.022222	0.693627	1	1.855215	2	2.671712	3
6605005659797	10	0.111111	2.165204	3	4.762595	5	6.588337	7
6605006202801	27	0.3	4.732051	5	9	9	12	12
6605006517991	14	0.155556	2.802775	3	5.876049	6	8.036296	9
6605006719631	18	0.2	3.414214	4	6.898979	7	9.348469	10
6605010177729	2	0.022222	0.693627	1	1.855215	2	2.671712	3
6605010182181	49	0.544444	7.777778	8	13.52735	14	17.5688	18
6605010424831	148	1.644444	20.49962	21	30.49198	31	37.51575	38
6605010463533	9	0.1	2	2	4.464102	5	6.196152	7
6605010876645	11	0.122222	2.327764	3	5.051931	6	6.966785	7
6605010903390	26	0.288889	4.588562	5	8.776729	9	11.72065	12
6605010940775	133	1.477778	18.62197	19	28.09443	29	34.75276	35
6605010972426	8	0.088889	1.831698	2	4.154875	5	5.787868	6
6605010976221	14	0.155556	2.802775	3	5.876049	6	8.036296	9
6605010987557	19	0.211111	3.564077	4	7.144334	8	9.660946	10
6605011081329	7	0.077778	1.659695	2	3.832828	4	5.360353	6
6605011375957	42	0.466667	6.826914	7	12.14998	13	15.89164	16
6605012562380	6	0.066667	1.483163	2	3.495094	4	4.909307	5
6605993708249	37	0.411111	6.138699	7	11.13488	12	14.64676	15
6610000000122	30	0.333333	5.159075	6	9.657889	10	12.82017	13
6610000180682	52	0.577778	8.181479	9	14.10444	15	18.26777	19
6610000180683	35	0.388889	5.860915	6	10.72019	11	14.13584	15
6610001342259	64	0.711111	9.777778	10	16.34872	17	20.96752	21
6610001342260	23	0.255556	4.154166	5	8.093305	9	10.86218	11
6610001600905	10	0.111111	2.165204	3	4.762595	5	6.588337	7
6610001691601	43	0.477778	6.963591	7	12.34966	13	16.13559	17
6610002963574	44	0.488889	7.099972	8	12.54831	13	16.37801	17
6610003142480	48	0.533333	7.642734	8	13.33333	14	17.33333	18
6610003293495	24	0.266667	4.29966	5	8.323521	9	11.15195	12
6610003494184	69	0.766667	10.43554	11	17.25833	18	22.05416	23

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6610003616686	12	0.133333	2.488034	3	5.333333	6	7.333333	8
6610004257661	5	0.055556	1.300912	2	3.137544	4	4.428539	5
6610004914092	3	0.033333	0.910684	1	2.333333	3	3.333333	4
6610005061745	37	0.411111	6.138699	7	11.13488	12	14.64676	15
6610005357722	72	0.8	10.82843	11	17.79796	18	22.69694	23
6610007198446	20	0.222222	3.712934	4	7.3862	8	9.968189	10
6610007269394	8	0.088889	1.831698	2	4.154875	5	5.787868	6
6610008724303	4	0.044444	1.111111	2	2.753846	3	3.908546	4
6610008792788	15	0.166667	2.957661	3	6.138803	7	8.374871	9
6610009453125	71	0.788889	10.69761	11	17.61857	18	22.48341	23
6610010200131	37	0.411111	6.138699	7	11.13488	12	14.64676	15
6610010215070	11	0.122222	2.327764	3	5.051931	6	6.966785	7
6610010379144	38	0.422222	6.277027	7	11.34027	12	14.8993	15
6610010750673	8	0.088889	1.831698	2	4.154875	5	5.787868	6
6610010754745	5	0.055556	1.300912	2	3.137544	4	4.428539	5
6610010996186	38	0.422222	6.277027	7	11.34027	12	14.8993	15
6610011326660	101	1.122222	14.57218	15	22.82682	23	28.62912	29
6610011326661	85	0.944444	12.51763	13	20.09026	21	25.41316	26
6610011440719	37	0.411111	6.138699	7	11.13488	12	14.64676	15
6610011676617	17	0.188889	3.263257	4	6.649841	7	9.030317	10
6610012262152	37	0.411111	6.138699	7	11.13488	12	14.64676	15
6610013081859	54	0.6	8.44949	9	14.48528	15	18.72792	19
6615001377514	52	0.577778	8.181479	9	14.10444	15	18.26777	19
6615001633181	70	0.777778	10.56664	11	17.4387	18	22.26915	23
6615002624314	15	0.166667	2.957661	3	6.138803	7	8.374871	9
6615003036728	15	0.166667	2.957661	3	6.138803	7	8.374871	9
6615003036730	6	0.066667	1.483163	2	3.495094	4	4.909307	5
6615004056460	15	0.166667	2.957661	3	6.138803	7	8.374871	9
6615004117976	41	0.455556	6.68993	7	11.94925	12	15.64609	16
6615004809422	2	0.022222	0.693627	1	1.855215	2	2.671712	3
6615004985210	3	0.033333	0.910684	1	2.333333	3	3.333333	4
6615005679423	18	0.2	3.414214	4	6.898979	7	9.348469	10
6615005759682	25	0.277778	4.444444	5	8.55128	9	11.43803	12
6615009224464	8	0.088889	1.831698	2	4.154875	5	5.787868	6
6615009224465	4	0.044444	1.111111	2	2.753846	3	3.908546	4
6615009224466	26	0.288889	4.588562	5	8.776729	9	11.72065	12
6615009224467	11	0.122222	2.327764	3	5.051931	6	6.966785	7
6615009732218	189	2.1	25.58258	26	36.87451	37	44.81176	45
6615010154794	22	0.244444	4.007916	5	7.86047	8	10.56848	11
6615010177727	24	0.266667	4.29966	5	8.323521	9	11.15195	12
6615010181635	63	0.7	9.645751	10	16.16515	17	20.74773	21
6615010214234	4	0.044444	1.111111	2	2.753846	3	3.908546	4
6615010427834	18	0.2	3.414214	4	6.898979	7	9.348469	10
6615010453887	22	0.244444	4.007916	5	7.86047	8	10.56848	11
6615010453888	26	0.288889	4.588562	5	8.776729	9	11.72065	12
6615010453889	31	0.344444	5.300366	6	9.873545	10	13.0881	14
6615010453890	4	0.044444	1.111111	2	2.753846	3	3.908546	4
6615010471190	95	1.055556	13.80449	14	21.81018	22	27.4375	28
6615010844995	8	0.088889	1.831698	2	4.154875	5	5.787868	6
6615010950962	8	0.088889	1.831698	2	4.154875	5	5.787868	6

Appendix C: Consolidated Demand Inventory Requirement

6615011072569	22	0.244444	4.007916	5	7.86047	8	10.56848	11
6615011273160	21	0.233333	3.860859	4	7.624836	8	10.27059	11
6615011382369	30	0.333333	5.159075	6	9.657889	10	12.82017	13
6615011484182	18	0.2	3.414214	4	6.898979	7	9.348469	10
6615011655941	2	0.022222	0.693627	1	1.855215	2	2.671712	3
6615011877821	26	0.288889	4.588562	5	8.776729	9	11.72065	12
6615012253744	15	0.166667	2.957661	3	6.138803	7	8.374871	9
6615012253745	30	0.333333	5.159075	6	9.657889	10	12.82017	13
6615012253746	24	0.266667	4.29966	5	8.323521	9	11.15195	12
6615012258139	90	1	13.16228	14	20.95445	21	26.43168	27
6615012258215	15	0.166667	2.957661	3	6.138803	7	8.374871	9
6615012261012	25	0.277778	4.444444	5	8.55128	9	11.43803	12
6615012477291	3	0.033333	0.910684	1	2.333333	3	3.333333	4
6615012477292	16	0.177778	3.111111	4	6.39658	7	8.705981	9
6615012620502	2	0.022222	0.693627	1	1.855215	2	2.671712	3
6615012662063	5	0.055556	1.300912	2	3.137544	4	4.428539	5
6615013167226	1	0.011111	0.444444	1	1.265812	2	1.843162	2
6615013169054	40	0.444444	6.55263	7	11.74741	12	15.3989	16
6615013246374	10	0.111111	2.165204	3	4.762595	5	6.588337	7
6615013517337	15	0.166667	2.957661	3	6.138803	7	8.374871	9
6615013528570	2	0.022222	0.693627	1	1.855215	2	2.671712	3
6615013566851	5	0.055556	1.300912	2	3.137544	4	4.428539	5
6615013619746	61	0.677778	9.381194	10	15.79628	16	20.30553	21
6620001249515	49	0.544444	7.777778	8	13.52735	14	17.5688	18
6625004713174	61	0.677778	9.381194	10	15.79628	16	20.30553	21
6625008954446	65	0.722222	9.909641	10	16.53172	17	21.18646	22
6625011146771	3	0.033333	0.910684	1	2.333333	3	3.333333	4
6625011539893	7	0.077778	1.659695	2	3.832828	4	5.360353	6
6625011938861	72	0.8	10.82843	11	17.79796	18	22.69694	23
6625012575269	5	0.055556	1.300912	2	3.137544	4	4.428539	5
6645000763050	43	0.477778	6.963591	7	12.34966	13	16.13559	17
6645001506526	133	1.477778	18.62197	19	28.09443	29	34.75276	35
6645003274005	2	0.022222	0.693627	1	1.855215	2	2.671712	3
6645009508599	70	0.777778	10.56664	11	17.4387	18	22.26915	23
6680010669003	2	0.022222	0.693627	1	1.855215	2	2.671712	3
6680010928262	35	0.388889	5.860915	6	10.72019	11	14.13584	15
6680011033419	32	0.355556	5.441174	6	10.08753	11	13.35351	14
6680011066215	18	0.2	3.414214	4	6.898979	7	9.348469	10
6685003336763	3	0.033333	0.910684	1	2.333333	3	3.333333	4
6685010482889	109	1.211111	15.59121	16	24.16654	25	30.19425	31
6685012320794	2	0.022222	0.693627	1	1.855215	2	2.671712	3
6695011577072	5	0.055556	1.300912	2	3.137544	4	4.428539	5
6695012013554	13	0.144444	2.646295	3	5.607776	6	7.689442	8
6695013434006	35	0.388889	5.860915	6	10.72019	11	14.13584	15
7025010933267	2	0.022222	0.693627	1	1.855215	2	2.671712	3
7025011963702	89	0.988889	13.03355	14	20.78231	21	26.22902	27

Appendix D: NMCS Hours

NSN	SRAN	DATE	ACFT	HOURS
1270992512706	2027	4048	1	16
6605012562380	2027	4064	1	16
1270013333608	2027	4320	2	32
6610008724303	2027	4335	2	32
1680011390166	2027	4339	1	16
5895011420803	2027	4340	2	32
6605001491134	2027	4342	2	32
6615011273160	2027	4347	2	32
6605010424831	2027	4350	2	32
6610001600905	2027	4355	2	32
5998011896233	2027	4361	2	32
5998011896233	2027	4361	2	32
5895011126380	2027	5004	2	32
5998011896233	2027	5005	2	32
5826010121938	2027	5006	2	32
6645000763050	2027	5009	2	32
5895012301075	2027	5009	1	16
5998011896233	2027	5011	4	64
5826010409798	2027	5018	2	32
1270012330011	2027	5019	3	48
1270012330011	2027	5020	2	32
1270997714187	2027	5023	2	32
5836010512886	2027	5024	2	32
1270012566538	2027	5026	1	16
1270012566538	2027	5027	1	16
6605010424831	2027	5027	2	32
5821011038155	2027	5030	2	32
5895012422033	2027	5031	1	16
1270013093077	2027	5031	1	16
5895013102157	2027	5032	4	64
5895011549125	2027	5033	2	32
5895011074586	2027	5037	2	32
6625011938861	2027	5038	2	32
5998011896233	2027	5039	2	32
1270012566538	2027	5040	2	32
6645000763050	2027	5041	1	16
5810004490154	2027	5044	1	16
5821010621019	2027	5044	2	32
6610003142480	2027	5046	1	16
5998011896233	2027	5046	1	16
5895011126380	2027	5047	2	32
5895011126380	2027	5048	2	32
5821010621019	2027	5052	2	32
6615013619746	2027	5053	2	32
6615013619746	2027	5054	1	16

Appendix D: NMCS Hours

6610003616686	2027	5055	2	32
1290011091499	2027	5058	2	32
5945011709363	2027	5059	2	32
5895011126380	2027	5060	2	32
5999010803978	2027	5061	1	16
5895013102157	2027	5062	2	32
5865011106043	2027	5066	2	32
5865010805675	2027	5067	2	32
5865013249103	2027	5068	2	32
1290013223711	2027	5069	2	32
1270012330011	2027	5072	1	16
7025011963702	2027	5073	3	48
5826010409798	2027	5074	1	16
6625011938861	2027	5075	3	48
5895011126380	2027	5076	2	32
1270012566538	2027	5080	1	16
5985012575597	2027	5081	2	32
1270012330011	2027	5082	1	16
6615013619746	2027	5083	3	48
6615013619746	2027	5086	2	32
5895013102157	2027	5087	2	32
1260012511150	2027	5088	1	16
5865010805675	2027	5089	2	32
6625011938861	2027	5090	1	16
5810010269624	2037	4270	1	16
5810010508115	2037	4318	2	32
5810010269624	2037	4327	1	16
5821011038155	2037	4336	1	16
5810010508115	2037	4336	2	32
5810012737820	2037	4354	2	32
5841012827093	2037	5003	2	32
5826010124864	2037	5006	2	32
6620005154541	2037	5006	2	32
5841010891064	2037	5011	2	32
5841012830065	2037	5012	2	32
5841012827093	2037	5013	2	32
5841010568647	2037	5019	2	32
5985011041424	2037	5020	1	16
5826010121938	2037	5024	1	16
5985012827891	2037	5024	1	16
5826010121938	2037	5024	1	16
5841010918929	2037	5026	6	96
5831005195883	2037	5027	6	96
5826009178679	2037	5027	2	32
5841010918929	2037	5030	4	64
5841012827093	2037	5031	4	64

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5841010891064	2037	5032	2	32
5826010412044	2037	5033	2	32
5810012737820	2037	5034	2	32
5985012827892	2037	5041	2	32
5895011126380	2037	5041	2	32
5841012827091	2037	5044	2	32
5821012866543	2037	5044	2	32
5841012830065	2037	5045	4	64
5841012827093	2037	5048	2	32
6615012258139	2037	5053	2	32
5821012866543	2037	5055	1	16
5821012866543	2037	5055	1	16
5826009178679	2037	5061	2	32
5985010890737	2037	5065	4	64
5841012827090	2037	5067	2	32
5841012827091	2037	5069	1	16
5841012827093	2037	5072	2	32
6615012258241	2037	5073	1	16
5841012827093	2037	5074	2	32
6645009508599	2037	5076	2	32
5841012830065	2037	5079	6	96
5821012287058	2037	5080	2	32
5895000894522	2037	5081	1	16
5810010508115	2037	5083	1	16
5895010537839	2037	5086	2	32
5826009178679	2047	5009	2	32
6615012253745	2047	5017	2	32
6605005012379	2047	5019	2	32
6130010568665	2047	5023	1	16
5826001345977	2047	5034	1	16
5841010693756	2047	5039	2	32
5826008974122	2047	5040	1	16
5895000894522	2047	5047	2	32
5826001345972	2047	5054	1	16
5895000894522	2047	5055	2	32
6615009732218	2047	5065	2	32
5985012827891	2047	5066	1	16
6615012253744	2047	5079	2	32
6605005569318	2047	5080	2	32
6615009732218	2047	5082	1	16
6610000180682	2053	4348	1	16
6610000180682	2053	4355	1	16
4920002497149	2053	5006	1	16
4920011850756	2053	5009	1	16
4920012098968	2053	5012	2	32

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4920002497153	2053	5017	1	16
6615004117976	2053	5023	2	32
6610000180682	2053	5024	2	32
4920013126007	2053	5030	1	16
6615010453887	2053	5031	2	32
5985012058599	2053	5033	1	16
6610000180682	2053	5038	2	32
6610000180682	2053	5039	2	32
6615004117976	2053	5047	2	32
6615004117976	2053	5053	1	16
6615004117976	2053	5053	1	16
6610011326661	2053	5059	2	32
4920001344902	2053	5061	4	64
1630011897830	2053	5065	2	32
6615010453888	2053	5066	3	48
6615010453890	2053	5067	2	32
6610000180682	2053	5068	2	32
6615010471190	2053	5072	4	64
6610000180682	2053	5073	2	32
4920010347681	2053	5074	1	16
6610011326661	2053	5076	2	32
5841012918393	2053	5080	2	32
6610011326661	2053	5081	2	32
2840002336043	2053	5089	1	16
5826001345977	2067	4040	1	16
5831005235328	2067	4047	1	16
5821012133980	2067	4061	1	16
6615009732218	2067	4084	1	16
6130010568665	2067	4103	2	32
5831000611577	2067	4182	1	16
5810000613386	2067	4209	2	32
5810004490154	2067	4349	5	80
5810010508115	2067	4349	2	32
5810010508115	2067	4349	2	32
5810011734045	2067	4350	2	32
5810000613386	2067	4350	4	64
6645001506526	2067	4353	1	16
6645009508599	2067	4354	1	16
6130010568665	2067	4356	2	32
6615009732218	2067	5004	2	32
6130010568665	2067	5005	1	16
6615012253745	2067	5006	2	32
6605006202801	2067	5009	2	32
5841012827093	2067	5010	2	32
5895000894522	2067	5011	2	32
5841012827091	2067	5012	1	16

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6645001506526	2067	5013	2	32
6645001506526	2067	5017	2	32
5985010537676	2067	5019	1	16
5826001345971	2067	5020	1	16
5841010537874	2067	5023	1	16
5831005195883	2067	5024	1	16
5841010537872	2067	5025	2	32
5821010621019	2067	5027	2	32
5821011038155	2067	5030	1	16
6645001506526	2067	5031	2	32
5810010269624	2067	5034	2	32
6615012253745	2067	5038	2	32
5895000894522	2067	5044	2	32
5985012827891	2067	5046	2	32
5826010121919	2067	5047	2	32
5895000894522	2067	5048	2	32
6605005569318	2067	5052	1	16
5985012827891	2067	5052	1	16
6605006208635	2067	5053	1	16
5841012827093	2067	5053	1	16
6605005569318	2067	5054	2	32
5985012827891	2067	5054	1	16
5826001345966	2067	5055	1	16
5895010537839	2067	5055	1	16
6645001506526	2067	5060	2	32
5826004445276	2067	5062	1	16
5841012827091	2067	5066	2	32
5821010979133	2067	5068	1	16
5831005195883	2067	5069	2	32
5821012866543	2067	5074	1	16
5821012133980	2067	5075	2	32
6615012258241	2067	5076	2	32
5826010121919	2067	5080	2	32
5826010121919	2067	5082	2	32
5841012827090	2067	5086	1	16
5826010121938	2067	5087	2	32
6130010568665	2067	5088	1	16
1280012804855	2300	4326	1	16
5985010537676	2300	4355	2	32
6625008954446	2300	4356	11	176
5985011464630	2300	4363	2	32
6615013528570	2300	5004	1	16
6615011273160	2300	5004	2	32
1270012733859	2300	5011	1	16
5831005195883	2300	5019	1	16
5831005235328	2300	5019	1	16

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5841010781344	2300	5020	2	32
5821012587579	2300	5026	2	32
5826009731916	2300	5032	1	16
5821013115105	2300	5052	2	32
6605005012379	2300	5052	2	32
5831009523454	2300	5059	3	48
5826009731916	2300	5066	2	32
5831005195883	2300	5067	2	32
5895001602198	2500	4346	2	32
5840010073959	2500	4357	2	32
5810010508115	2500	4361	2	32
6645001506526	2500	5009	2	32
5810010508115	2500	5010	2	32
5841011435910	2500	5017	3	48
6645009508599	2500	5019	2	32
5826010121938	2500	5025	1	16
5826010121938	2500	5025	1	16
5895005051016	2500	5026	2	32
5841010042227	2500	5027	2	32
5831009993916	2500	5030	6	96
5826010124864	2500	5036	2	32
6615009732218	2500	5038	2	32
5810010508115	2500	5040	8	128
5831009993916	2500	5046	2	32
5895001491319	2500	5047	2	32
5826005050793	2500	5047	1	16
5815010575286	2500	5052	2	32
5895001491319	2500	5059	2	32
6620005154541	2500	5064	1	16
5895001491319	2500	5069	2	32
5841012827090	2500	5075	1	16
6620005154541	2500	5076	2	32
5831008093180	2500	5080	2	32
5895010537839	2500	5081	1	16
5810010269624	2520	4311	2	32
5810010508115	2520	4322	2	32
5810010508115	2520	4326	2	32
5810010269624	2520	4332	4	64
5810010508115	2520	4341	2	32
5810010508115	2520	4357	2	32
5821013115105	2520	4361	2	32
6605006202801	2520	5012	1	16
5821011948160	2520	5013	1	16
5821011948160	2520	5013	1	16
6610000180683	2520	5018	2	32

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5826005052222	2520	5020	2	32
5985011515848	2520	5025	1	16
5831009993916	2520	5026	4	64
5841010781344	2520	5027	1	16
5810010269624	2520	5032	2	32
5831000611577	2520	5033	2	32
5821010621019	2520	5037	2	32
5826010121938	2520	5038	2	32
5810010269624	2520	5039	2	32
5841008047159	2520	5042	2	32
5841010537872	2520	5044	5	80
5831005391714	2520	5052	2	32
5810010508115	2520	5053	1	16
5821011948160	2520	5053	1	16
6625008954446	2520	5059	1	16
5821011948160	2520	5061	2	32
6605010424831	2805	4280	2	32
5836010512886	2805	4290	1	16
5810000613386	2805	4299	2	32
5826010121938	2805	4306	2	32
5826010124864	2805	4333	2	32
5831008093180	2805	4336	2	32
5826010121938	2805	4336	2	32
5895011074586	2805	4341	2	32
5895011074586	2805	4346	4	64
6620001249515	2805	4347	2	32
1280011509022	2805	4347	1	16
5810010269624	2805	4353	2	32
5841011274935	2805	4362	2	32
6680011033419	2805	4364	1	16
6645001506526	2805	5004	2	32
7025011963702	2805	5006	3	48
6605010876645	2805	5006	1	16
6605010876645	2805	5006	1	16
5841011274935	2805	5009	1	16
1280011216879	2805	5010	4	64
1270012383662	2805	5011	2	32
1270010932256	2805	5012	3	48
5945011709363	2805	5012	2	32
6605010424831	2805	5018	4	64
5821010771313	2805	5018	2	32
1270012383662	2805	5023	1	16
1270012383662	2805	5023	1	16
6645001506526	2805	5024	1	16
5826001345970	2805	5024	1	16
5821010771313	2805	5024	2	32

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6610002963574	2805	5030	2	32
5841011507427	2805	5033	2	32
1280011458646	2805	5038	2	32
5826010121938	2805	5040	2	32
1270012383662	2805	5040	2	32
5826001345976	2805	5041	1	16
6620001249515	2805	5045	2	32
6610010379144	2805	5048	1	16
5895011074586	2805	5048	2	32
6610012695437	2805	5052	2	32
5990007178111	2805	5054	2	32
6620011829763	2805	5055	2	32
5826010121938	2805	5059	2	32
1270010948505	2805	5060	1	16
6615010351092	2805	5061	2	32
5895011074586	2805	5065	2	32
5841012857896	2805	5067	2	32
6610003142480	2805	5069	1	16
5985010537676	2805	5072	1	16
6680013570388	2805	5073	1	16
6610007198446	2805	5074	2	32
6695001516748	2805	5075	2	32
6610012628319	2805	5080	4	64
5810010508116	2805	5081	1	16
6680011033419	2805	5082	2	32
6610010379144	2805	5083	2	32
6620001249515	2805	5086	2	32
1680011874063	2805	5087	1	16
6615012754675	2805	5088	1	16
5810012737820	2823	4245	2	32
5810010269624	2823	4264	1	16
5810010508115	2823	4308	2	32
5865013088894	2823	4334	1	16
6625011938861	2823	4335	1	16
5895013455140	2823	4340	1	16
6605010424831	2823	4342	2	32
5865011003768	2823	4343	2	32
5810004490154	2823	4347	2	32
6130010568665	2823	4348	2	32
1680011596742	2823	4349	2	32
1280013200787	2823	4350	1	16
5865012112335	2823	4353	2	32
6610005357722	2823	4354	1	16
5865013249103	2823	4355	4	64
6615001377514	2823	4356	1	16
6610003494184	2823	4361	2	32

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6605010424831	2823	4362	2	32
6605010940775	2823	4363	2	32
1270012330011	2823	4364	2	32
6680011033419	2823	5003	2	32
6680011033419	2823	5004	4	64
6615011484182	2823	5005	2	32
5821011369512	2823	5006	1	16
6685010482889	2823	5009	2	32
5821011038155	2823	5009	2	32
6610007198446	2823	5010	2	32
6605005012379	2823	5010	1	16
5836010512886	2823	5010	6	96
6615001377514	2823	5011	2	32
5985013083647	2823	5012	2	32
1680011596742	2823	5012	2	32
6610010379144	2823	5013	2	32
6620001249515	2823	5017	2	32
5930010920386	2823	5017	2	32
6610002963574	2823	5018	4	64
6610013081859	2823	5019	3	48
5985011515848	2823	5019	2	32
6615011484182	2823	5020	2	32
5895012490130	2823	5020	2	32
5841012827093	2823	5020	2	32
6605010424831	2823	5023	2	32
5985011515848	2823	5023	2	32
6610007198446	2823	5024	2	32
6610001342259	2823	5024	2	32
6610003293495	2823	5025	2	32
5810004490154	2823	5025	1	16
6625004713174	2823	5025	2	32
6685010482889	2823	5026	2	32
6605010976221	2823	5026	2	32
6615010844995	2823	5027	1	16
6605010940775	2823	5027	2	32
5895013296324	2823	5030	1	16
1680011596742	2823	5030	2	32
1290011091499	2823	5031	4	64
5895011126380	2823	5032	2	32
5930011729448	2823	5033	4	64
6610005357722	2823	5034	4	64
5895011126380	2823	5037	4	64
6615011484182	2823	5038	2	32
5810012737820	2823	5039	2	32
6605010940775	2823	5039	4	64
6685010482889	2823	5040	2	32
5895011549125	2823	5041	4	64

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6610005357722	2823	5044	2	32
5810010508115	2823	5045	2	32
6625011938861	2823	5045	2	32
5985010932174	2823	5046	2	32
6610003142480	2823	5047	2	32
6620001249515	2823	5048	4	64
5810010508115	2823	5052	1	16
6610003142480	2823	5052	2	32
6605003142536	2823	5053	1	16
6605001491134	2823	5053	2	32
5821011365467	2823	5054	1	16
6685010482889	2823	5054	2	32
5821012287058	2823	5055	1	16
5821012287058	2823	5055	2	32
6605010940775	2823	5058	2	32
5821012287058	2823	5059	2	32
6620001487306	2823	5060	2	32
6685010482889	2823	5061	2	32
6620001249515	2823	5062	2	32
6620001249515	2823	5065	4	64
6620005154541	2823	5066	4	64
6605010423133	2823	5067	2	32
5895003409619	2823	5068	2	32
6685010482889	2823	5069	2	32
5865013249103	2823	5072	4	64
5895000894522	2823	5073	3	48
6605010940775	2823	5074	2	32
5895011074586	2823	5075	2	32
5895000894522	2823	5076	2	32
6620001487306	2823	5079	4	64
6605010424831	2823	5080	4	64
6610000000122	2823	5081	2	32
6605010424831	2823	5082	4	64
1680010325251	2823	5083	2	32
5821012287058	2823	5086	3	48
5895013296324	2823	5087	2	32
6605001491134	2823	5088	2	32
5895000395455	3010	4361	1	16
5810010508115	3010	4362	2	32
5821011369512	3010	4363	2	32
5895003477178	3010	5003	2	32
6625004713174	3010	5005	2	32
6645009508599	3010	5012	2	32
5821012866543	3010	5017	2	32
5841009743254	3010	5019	2	32
5841012827093	3010	5020	2	32

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5895010537839	3010	5023	4	64
5895003477178	3010	5024	2	32
5895010537839	3010	5026	4	64
5821010621019	3010	5030	1	16
5821010621019	3010	5030	1	16
5831008093180	3010	5031	2	32
5826010121938	3010	5033	2	32
5831000611577	3010	5037	2	32
6130000410372	3010	5040	2	32
5831009993916	3010	5044	2	32
6645009508599	3010	5045	2	32
6615009732218	3010	5046	2	32
5841012827093	3010	5047	1	16
5841012827090	3010	5052	4	64
5826010124864	3010	5053	1	16
5841011435912	3010	5054	1	16
5826005053094	3010	5059	1	16
5841009743254	3010	5065	2	32
5985012827891	3010	5072	1	16
6620005154541	3010	5074	2	32
5895001491319	3010	5079	2	32
5841011435912	3010	5080	2	32
6645009508599	3010	5082	1	16
5821010621019	3010	5087	2	32
5841012827090	3010	5089	1	16
1280011163832	3020	4201	2	32
5821011416133	3020	4272	1	16
1280012287261	3020	4334	2	32
6645001506526	3020	4348	2	32
5826012371912	3020	4362	2	32
5826010124864	3020	4363	2	32
5821011416133	3020	5009	1	16
5821011416133	3020	5009	1	16
5821011416133	3020	5011	1	16
5821011416133	3020	5011	1	16
6645001506526	3020	5012	2	32
6645009508599	3020	5017	2	32
5821011376301	3020	5020	2	32
6645008805927	3020	5023	2	32
5821011376301	3020	5025	4	64
5821011376301	3020	5025	1	16
5821011416133	3020	5027	1	16
5821011416133	3020	5027	1	16
6610008724303	3020	5030	2	32
5821011376301	3020	5037	6	96
5821011416133	3020	5038	1	16

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6645008805927	3020	5038	2	32
6645001506526	3020	5039	2	32
5821011416133	3020	5040	1	16
6645001506526	3020	5040	2	32
6695001516748	3020	5041	2	32
6645001506526	3020	5053	2	32
5826012371912	3020	5058	2	32
5821011376301	3020	5060	3	48
6645001506526	3020	5066	1	16
6625004713174	3020	5068	2	32
6620005154541	3020	5069	1	16
6625008954446	3020	5073	2	32
1270013093077	3020	5074	1	16
6620005154541	3020	5075	1	16
6620005154541	3020	5076	1	16
5821011376301	3020	5081	3	48
5831005235328	3020	5083	1	16
1270013624867	3020	5088	1	16
5831005235328	3020	5089	1	16
5810010508115	3300	5003	6	96
5985012827892	3300	5004	2	32
5841011435912	3300	5005	1	16
5841012827093	3300	5009	1	16
5821012287058	3300	5011	2	32
5841011435912	3300	5012	1	16
5841010931491	3300	5018	2	32
5841011423785	3300	5019	1	16
5841012827093	3300	5020	1	16
5841011435912	3300	5025	1	16
5810010508115	3300	5025	6	96
5841011435912	3300	5026	1	16
5841011435778	3300	5038	1	16
5826010121938	3300	5045	2	32
5841012830065	3300	5047	1	16
5841011423785	3300	5059	2	32
5841010931491	3300	5065	2	32
5841012827090	3300	5068	1	16
5841011435912	3300	5082	2	32
6645009508599	3300	5083	1	16
6620005154541	3300	5086	2	32
5895012834089	3300	5087	2	32
5810010508115	4417	4231	2	32
5810004490154	4417	4294	2	32
5810000613386	4417	4301	4	64
5810004490154	4417	4312	2	32

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5810000613386	4417	4319	2	32
5930010920386	4417	4322	2	32
5810010842200	4417	4340	2	32
5810010509968	4417	4344	2	32
5865012702234	4417	4346	1	16
5865013077305	4417	4347	2	32
5810000613386	4417	4348	2	32
5985011041424	4417	4354	1	16
5831000611577	4417	4355	6	96
5930010920386	4417	4357	1	16
5810010508115	4417	4357	2	32
5895011549125	4417	4361	2	32
5821010621019	4417	4362	2	32
5831008802834	4417	4364	2	32
5831005235328	4417	5003	4	64
5985011041424	4417	5004	1	16
6645001506526	4417	5005	2	32
5821012287058	4417	5006	4	64
5821012287058	4417	5009	2	32
5895011549125	4417	5010	2	32
5930010920386	4417	5011	2	32
5895000894522	4417	5012	2	32
5930010920386	4417	5013	4	64
6610001691601	4417	5014	1	16
5895013102157	4417	5017	2	32
6605004479654	4417	5018	2	32
5985011515848	4417	5019	1	16
6625004713174	4417	5020	1	16
5810010269624	4417	5022	2	32
5841012918393	4417	5023	2	32
5810000613386	4417	5023	2	32
5821012287058	4417	5024	2	32
5810010269624	4417	5024	2	32
5865013249103	4417	5025	2	32
5895005071381	4417	5027	1	16
5841012827090	4417	5030	2	32
5865013077305	4417	5031	4	64
5895013102157	4417	5032	2	32
5930010920386	4417	5033	2	32
5826010329930	4417	5034	4	64
5865011106043	4417	5037	4	64
5821012287058	4417	5038	3	48
5821012287058	4417	5039	3	48
5895000894522	4417	5040	2	32
5826005356629	4417	5041	1	16
5930010920386	4417	5044	2	32
5821012287058	4417	5045	5	80

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5821012287058	4417	5046	2	32
5826010121938	4417	5048	2	32
5821012287058	4417	5052	1	16
5821012287058	4417	5053	2	32
5821012287058	4417	5054	3	48
5810010508116	4418	4252	2	32
5810010508116	4418	4255	2	32
5810010508116	4418	4258	2	32
5821011136476	4418	4346	1	16
6610009453125	4418	4355	1	16
6610011326661	4418	4357	1	16
6610011326661	4418	4361	1	16
5841010891064	4418	4362	1	16
6610011326660	4418	4363	1	16
6610009453125	4418	4364	4	64
5810010508116	4418	4364	2	32
6615010181635	4418	5003	2	32
6340010557374	4418	5004	1	16
6610009453125	4418	5005	2	32
5821011136476	4418	5006	2	32
6610011440719	4418	5009	2	32
6610011326660	4418	5010	2	32
5895011549125	4418	5011	2	32
5841010891022	4418	5013	2	32
6610011440719	4418	5017	2	32
6610012262152	4418	5018	2	32
5826009731916	4418	5019	1	16
5826009731916	4418	5020	4	64
6610009453125	4418	5023	2	32
5810011790665	4418	5023	2	32
5865012340860	4418	5024	2	32
6610012262152	4418	5025	3	48
5810010508116	4418	5025	2	32
5821010621019	4418	5025	6	96
6615010181635	4418	5026	2	32
6615010177727	4418	5026	1	16
6610011326660	4418	5027	1	16
6610011326660	4418	5027	1	16
5810011734045	4418	5030	2	32
6605010177730	4418	5030	2	32
6610011326661	4418	5031	5	80
6610011326660	4418	5032	5	80
6610011326661	4418	5033	4	64
6610011440719	4418	5034	2	32
5821011136476	4418	5037	2	32
5821011136476	4418	5038	4	64

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5895011549125	4418	5039	2	32
5821011136476	4418	5039	4	64
5810010508116	4418	5040	2	32
5821010621019	4418	5041	2	32
6610011326660	4418	5044	2	32
5985010890737	4418	5045	1	16
5841010918929	4418	5046	1	16
6340010557374	4418	5047	2	32
5841011435912	4418	5048	2	32
5826009731914	4418	5052	2	32
6615010181635	4418	5052	1	16
5826012371912	4418	5053	2	32
5895001602198	4418	5053	6	96
5826009731916	4418	5055	2	32
6610012262152	4418	5058	2	32
6610011440719	4418	5059	2	32
6610011326660	4418	5061	5	80
5841012644422	4418	5062	4	64
5895001602198	4418	5065	4	64
5895001602198	4418	5066	4	64
5895001602198	4418	5067	2	32
6625011539893	4418	5068	2	32
6610011326661	4418	5069	2	32
5841011435912	4418	5071	2	32
1680008699545	4418	5072	2	32
6615009504212	4418	5073	3	48
6610011326661	4418	5074	1	16
5841011435912	4418	5075	2	32
6610011326661	4418	5076	2	32
5821010621019	4418	5079	2	32
6610012262152	4418	5080	2	32
5841010918929	4418	5081	1	16
6615009363486	4418	5082	2	32
6610009453125	4418	5083	1	16
5821011136476	4418	5086	2	32
5821011136476	4418	5087	1	16
6615008667670	4418	5088	1	16
6610008792788	4419	4095	1	16
5810010269624	4419	4305	8	128
5985012058599	4419	4325	1	16
4920000782418	4419	4343	1	16
5826001345977	4419	4347	2	32
6610001691601	4419	4354	1	16
6610001691601	4419	4357	1	16
5985011041424	4419	4361	1	16
4920012802786	4419	4362	1	16

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5826006269874	4419	4363	1	16
5821011659342	4419	4364	2	32
5826010121938	4419	5003	2	32
6610011326660	4419	5004	2	32
6615009732218	4419	5005	2	32
6615010181635	4419	5006	2	32
5841011423785	4419	5009	2	32
6615009732218	4419	5010	2	32
5826009731914	4419	5011	4	64
5821011136476	4419	5012	2	32
6615004117976	4419	5013	2	32
5821011659342	4419	5017	4	64
6130010568665	4419	5018	2	32
5810010842200	4419	5018	2	32
6625011539893	4419	5019	2	32
6625011539893	4419	5019	1	16
5826001345972	4419	5020	2	32
6615001633181	4419	5023	2	32
6615011877821	4419	5024	4	64
6615012477292	4419	5025	2	32
5841012827093	4419	5025	1	16
6615012477292	4419	5026	2	32
5841010781344	4419	5026	1	16
5821010621019	4419	5027	2	32
5826004445276	4419	5027	1	16
5841012827091	4419	5030	2	32
6615009732218	4419	5030	2	32
6615001633181	4419	5031	2	32
6130012562076	4419	5032	2	32
6615004117976	4419	5033	2	32
5895001602198	4419	5034	2	32
5821013117551	4419	5037	2	32
6610005061745	4419	5038	2	32
6130010568665	4419	5039	2	32
5831005195883	4419	5040	4	64
5821011659342	4419	5041	4	64
5810004490154	4419	5044	1	16
5831002487225	4419	5044	4	64
5826009178679	4419	5045	4	64
5841008047159	4419	5046	2	32
6615012477292	4419	5046	4	64
5826009178679	4419	5047	2	32
5841008047159	4419	5048	2	32
5821010621019	4419	5048	2	32
5810010508116	4419	5052	3	48
5841012827093	4419	5052	4	64
5895001602198	4419	5053	2	32

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5826010121938	4419	5054	2	32
5841010918929	4419	5054	2	32
5841012827093	4419	5055	2	32
5821013123525	4419	5055	1	16
5821010976218	4419	5058	1	16
5841010891064	4419	5058	1	16
6615009732218	4419	5059	2	32
5895000894522	4419	5060	2	32
5826001345972	4419	5061	3	48
5990007178111	4419	5062	2	32
5831005195883	4419	5065	4	64
6130012562076	4419	5066	6	96
5998000703123	4419	5067	2	32
5826001345973	4419	5068	2	32
5841012827093	4419	5069	1	16
5831005195883	4419	5072	4	64
6615012258241	4419	5073	2	32
5841012827091	4419	5074	1	16
5895001602198	4419	5075	2	32
5826005053094	4419	5076	4	64
6615004117976	4419	5079	2	32
5841011435912	4419	5080	2	32
5831005195883	4419	5081	2	32
5821012287058	4419	5082	2	32
5998012898541	4419	5083	1	16
6680011016438	4419	5086	2	32
5831005195883	4419	5087	2	32
5821012287058	4419	5088	2	32
6615010453887	4419	5089	1	16
5841010891064	4427	4326	1	16
5985010890737	4427	4344	1	16
5985010890737	4427	4351	2	32
4920012810250	4427	4355	1	16
5985011273039	4427	4356	4	64
6610005061745	4427	4357	1	16
4920011850754	4427	4358	2	32
4920010347681	4427	4361	2	32
6615001633181	4427	4363	2	32
6615010471190	4427	4364	2	32
6610011326660	4427	4365	2	32
6615010453889	4427	5003	2	32
6615001633181	4427	5004	2	32
6610005061745	4427	5005	2	32
6615010471190	4427	5006	2	32
5985010890737	4427	5006	1	16
6610011326661	4427	5007	2	32

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6615010471190	4427	5009	2	32
6615010471190	4427	5010	2	32
6645001506526	4427	5011	2	32
5985010890737	4427	5011	1	16
6615010471190	4427	5012	2	32
5998011908297	4427	5013	2	32
6615010471190	4427	5014	4	64
6615001633181	4427	5017	2	32
6615010177727	4427	5018	2	32
4920011174366	4427	5019	2	32
5810000613386	4427	5019	3	48
6615010471190	4427	5020	2	32
5999012801750	4427	5020	2	32
4920012802786	4427	5020	1	16
6615001633181	4427	5021	2	32
6610000180683	4427	5023	4	64
6610005061745	4427	5024	3	48
6615010471190	4427	5025	2	32
6615011877821	4427	5026	2	32
6615010471190	4427	5026	1	16
6615010471190	4427	5027	2	32
6615010471190	4427	5027	2	32
6615010453890	4427	5028	1	16
5821010621019	4427	5028	2	32
6615004117976	4427	5030	1	16
6680011016438	4427	5030	2	32
5821010621019	4427	5030	2	32
6610011326661	4427	5031	2	32
4920012521038	4427	5032	4	64
5998011917008	4427	5033	2	32
2915001117770	4427	5034	1	16
6610000180682	4427	5034	3	48
6610000180683	4427	5037	6	96
6605005569318	4427	5038	2	32
4920011850754	4427	5039	2	32
1650013044171	4427	5040	1	16
5895009992411	4427	5040	2	32
4920004000241	4427	5041	2	32
6625012575269	4427	5042	2	32
1650011780487	4427	5043	1	16
5998011909306	4427	5043	2	32
4920000782418	4427	5044	3	48
1650004866297	4427	5045	1	16
5826010121919	4427	5045	2	32
5985010890737	4427	5046	1	16
6610011326660	4427	5046	4	64
6610011326661	4427	5047	2	32

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6615010471190	4427	5048	2	32
5985012058599	4427	5049	3	48
6610000180682	4427	5052	2	32
1650011780487	4427	5053	1	16
4920011185129	4427	5053	2	32
5895011287267	4427	5054	4	64
6615001633181	4427	5055	2	32
6615010453888	4427	5055	2	32
6615001633181	4427	5056	2	32
5895011287267	4427	5056	2	32
6610000180682	4427	5058	2	32
6610000180683	4427	5058	1	16
6615010453888	4427	5059	2	32
6615010453888	4427	5060	2	32
5821012587580	4427	5061	2	32
5985010890737	4427	5062	2	32
6610011326661	4427	5063	2	32
4920010347681	4427	5064	2	32
6615004117976	4427	5065	4	64
4920012521038	4427	5066	2	32
1650004866297	4427	5067	2	32
6610003715953	4427	5068	2	32
6615010453889	4427	5069	2	32
6610009453125	4427	5070	1	16
6615001633181	4427	5071	2	32
5998011908300	4427	5072	2	32
6610009453125	4427	5073	2	32
4920011185129	4427	5074	2	32
6615009078535	4427	5075	4	64
6615001633181	4427	5076	2	32
4920000782418	4427	5077	2	32
6610012262152	4427	5079	2	32
6615004117976	4427	5080	2	32
6615011877821	4427	5082	2	32
6615001633181	4427	5083	6	96
5998011908296	4427	5084	2	32
5985011041424	4427	5085	2	32
6615010177727	4427	5086	2	32
6620013055344	4427	5087	2	32
5895011287267	4427	5088	2	32
6615008667670	4427	5089	2	32
5810010508115	4460	4250	1	16
5810010508115	4460	4266	2	32
5810010508115	4460	4269	2	32
5831004341287	4460	4343	4	64
5826002411011	4460	4347	1	16

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5841012918393	4460	4348	2	32
5841012827093	4460	4349	1	16
5841012827093	4460	4353	1	16
5826010121938	4460	4354	1	16
6605005578206	4460	4361	2	32
6130010568665	4460	4362	1	16
5840010073959	4460	4363	2	32
5826010121938	4460	5003	2	32
6615009732218	4460	5005	2	32
5841011435912	4460	5009	1	16
5895001602198	4460	5010	2	32
5810010508115	4460	5011	2	32
5831008093180	4460	5013	2	32
6625008954446	4460	5017	4	64
5821010621019	4460	5018	2	32
5821012287058	4460	5019	2	32
6645009508599	4460	5020	2	32
5841012827093	4460	5023	1	16
5895005071381	4460	5024	1	16
5841012827090	4460	5024	1	16
5895001602198	4460	5025	1	16
5841011435912	4460	5025	1	16
5841012827093	4460	5026	2	32
5841011435912	4460	5027	1	16
6130010568665	4460	5027	1	16
5841011435912	4460	5030	1	16
5841011435912	4460	5030	1	16
6625008954446	4460	5031	2	32
5821010621019	4460	5032	2	32
5841011435912	4460	5034	2	32
5895001602198	4460	5038	2	32
5810010508115	4460	5040	1	16
5895001602198	4460	5040	2	32
6615009732218	4460	5041	2	32
5841011435912	4460	5044	2	32
5895001602198	4460	5045	2	32
5895001602198	4460	5046	2	32
5841012827093	4460	5047	1	16
5895001602198	4460	5048	2	32
5841009743254	4460	5052	1	16
5841012827090	4460	5054	1	16
5826010121938	4460	5055	2	32
5821010621019	4460	5055	2	32
5810010508115	4460	5058	2	32
6615009732218	4460	5059	2	32
5826002411011	4460	5061	1	16
6625004713174	4460	5062	2	32

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5841011435912	4460	5065	2	32
5841010781344	4460	5066	1	16
5810010269624	4460	5068	2	32
5821010621019	4460	5069	2	32
5841011435912	4460	5072	2	32
5841011435912	4460	5073	2	32
5821012866543	4460	5074	1	16
6620005154541	4460	5075	4	64
5841011435912	4460	5076	4	64
5841011435912	4460	5079	5	80
6620005154541	4460	5080	2	32
6615009732218	4460	5081	2	32
5826005050793	4460	5082	2	32
5826010121938	4460	5083	2	32
5821012287058	4460	5087	3	48
5826010121938	4469	4321	2	32
5826010329930	4469	4350	2	32
5985012827892	4469	4362	1	16
5810010508115	4469	5003	2	32
5831004952163	4469	5005	1	16
5826010124864	4469	5009	2	32
5810010509968	4469	5009	1	16
5865013249103	4469	5011	2	32
5865013252225	4469	5012	2	32
5821010621019	4469	5018	2	32
5821001490676	4469	5018	1	16
5831009993916	4469	5023	2	32
5895001602198	4469	5026	1	16
6625008954446	4469	5027	2	32
5895011549125	4469	5030	2	32
5826002266030	4469	5031	1	16
5821012287058	4469	5032	1	16
5831000611577	4469	5033	1	16
6645001506526	4469	5034	2	32
6615009732218	4469	5037	1	16
5831000784969	4469	5041	1	16
5821012587579	4469	5055	1	16
5985011515848	4469	5056	1	16
5810004490154	4479	4258	2	32
5810010509968	4479	4341	1	16
5810010842200	4479	4347	2	32
5826012371912	4479	4350	1	16
5985010890737	4479	4354	1	16
5895009992411	4479	4355	1	16
5840010073959	4479	4356	2	32

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5810012737820	4479	4356	2	32
6610009453125	4479	4357	2	32
5821011136476	4479	4361	1	16
6610011326660	4479	4362	2	32
5895001602198	4479	4363	2	32
5895001602198	4479	5003	2	32
5895009992411	4479	5004	2	32
5810000613386	4479	5004	2	32
5841012644422	4479	5005	1	16
6610010750673	4479	5006	3	48
5821010704695	4479	5006	8	128
6610011326661	4479	5009	2	32
5826010121938	4479	5009	4	64
6615010181635	4479	5010	2	32
5810010842200	4479	5010	2	32
5895009992411	4479	5011	2	32
5810000613386	4479	5011	2	32
5895001602198	4479	5012	2	32
5841011314516	4479	5012	1	16
6615010181635	4479	5018	4	64
5810000613386	4479	5019	1	16
6610011326661	4479	5023	2	32
5810000613386	4479	5023	4	64
6610011440719	4479	5024	2	32
5810000613386	4479	5024	4	64
6615010181635	4479	5027	2	32
5895009992411	4479	5027	2	32
6340010557374	4479	5030	2	32
6625008954446	4479	5031	2	32
6610009453125	4479	5032	2	32
5810000613386	4479	5033	1	16
6610009453125	4479	5033	2	32
5821013123525	4479	5034	1	16
6610009453125	4479	5037	4	64
5826010121938	4479	5038	2	32
5810000613386	4479	5039	2	32
6615008667670	4479	5040	1	16
6610011326660	4479	5040	2	32
6610011440719	4479	5041	2	32
5841012827093	4479	5044	2	32
5895001602198	4479	5045	2	32
5998000703278	4479	5046	1	16
5841010891064	4479	5046	1	16
5895008809688	4479	5047	2	32
6610009453125	4479	5047	2	32
5841010891064	4479	5048	1	16
5810000613386	4479	5052	1	16

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6340010557374	4479	5052	2	32
5841010918929	4479	5054	1	16
5841011435912	4479	5054	1	16
5998000703278	4479	5058	2	32
5841011435912	4479	5059	2	32
6610011326660	4479	5065	4	64
5826009731914	4479	5066	1	16
6615009504212	4479	5067	2	32
5821011659342	4479	5068	1	16
6610009453125	4479	5072	2	32
6610011326660	4479	5073	2	32
6610011440719	4479	5074	2	32
6615010181635	4479	5079	2	32
6610011440719	4479	5080	2	32
5895001602198	4479	5081	2	32
6615010181635	4479	5082	2	32
5895001602198	4479	5086	2	32
5841011435912	4479	5088	1	16
6605010182181	4484	4339	1	16
5810010508116	4484	4340	2	32
5810000613386	4484	4355	2	32
6625008954446	4484	4356	1	16
5841010918929	4484	4357	1	16
5840010073959	4484	4362	1	16
5841012029769	4484	4364	1	16
6625004713174	4484	5004	2	32
5810000613386	4484	5005	2	32
6610011326660	4484	5009	2	32
5895013455140	4484	5011	2	32
5821011376301	4484	5012	2	32
6610011440719	4484	5013	2	32
6615010471190	4484	5017	2	32
5826010124864	4484	5018	2	32
5810000613386	4484	5019	2	32
1680008699545	4484	5021	2	32
6610009453125	4484	5024	2	32
5821011136476	4484	5027	8	128
5821011136476	4484	5027	12	192
6610011326661	4484	5028	1	16
6610011326661	4484	5030	1	16
6610011326661	4484	5030	1	16
5810012737820	4484	5031	2	32
5841010891022	4484	5032	2	32
6610011326660	4484	5036	2	32
5841011435912	4484	5037	2	32
5821012587579	4484	5038	4	64

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5895009992411	4484	5039	2	32
5841011435778	4484	5040	5	80
6610011440719	4484	5044	2	32
6610009453125	4484	5047	2	32
5841012644422	4484	5048	1	16
5821011136476	4484	5052	2	32
5810000613386	4484	5053	2	32
5821011659342	4484	5053	2	32
6610009453125	4484	5054	1	16
6615010181635	4484	5054	4	64
6610009453125	4484	5055	2	32
6610009453125	4484	5055	2	32
6615010181635	4484	5057	1	16
6615010181635	4484	5057	1	16
5821012137333	4484	5060	2	32
6610009453125	4484	5061	3	48
6615009072838	4484	5062	2	32
6610011326661	4484	5065	2	32
5826010121919	4484	5066	2	32
5841011435912	4484	5067	4	64
6615009078535	4484	5069	2	32
6610011326661	4484	5070	2	32
6615009078535	4484	5071	2	32
5841010918929	4484	5072	1	16
6625008954446	4484	5073	2	32
5841011435778	4484	5074	2	32
6615010181635	4484	5076	2	32
5998000703123	4484	5079	2	32
5841010891064	4484	5080	1	16
6610009453125	4484	5081	2	32
5841010891064	4484	5082	1	16
6615010181635	4484	5083	2	32
5841011435912	4484	5087	1	16
6615009078535	4484	5088	2	32
6615009078535	4484	5089	2	32
5810004490154	4488	4256	2	32
5810010508115	4488	4257	2	32
5810010508115	4488	4260	4	64
5810010508115	4488	4305	2	32
5810010269624	4488	4305	2	32
5810010269624	4488	4326	4	64
6625004713174	4488	4340	1	16
5841010781344	4488	4341	1	16
5831008093179	4488	4342	2	32
5985012122950	4488	4342	1	16
6645001506526	4488	4349	2	32

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6615013169054	4488	4350	1	16
5840010073959	4488	4353	2	32
1270012383662	4488	4354	1	16
5895005071381	4488	4356	2	32
5821010621019	4488	4361	2	32
5821012587579	4488	4363	2	32
5895001602198	4488	5003	3	48
5841011435358	4488	5004	1	16
5895001602198	4488	5005	2	32
5821012587579	4488	5005	2	32
5895009992411	4488	5006	2	32
7025011963702	4488	5009	2	32
6615009732218	4488	5009	2	32
5841012827090	4488	5010	4	64
5841010537872	4488	5010	2	32
5810010269624	4488	5011	2	32
5810012737820	4488	5011	2	32
1260012511150	4488	5012	1	16
5895009992411	4488	5013	2	32
5810010508115	4488	5013	2	32
1270012383662	4488	5017	2	32
5999010803978	4488	5018	1	16
5810010508115	4488	5018	4	64
5895013102157	4488	5018	2	32
5826012371912	4488	5019	2	32
5810010269624	4488	5019	2	32
7025011963702	4488	5020	2	32
5895001602198	4488	5020	2	32
6645009508599	4488	5021	2	32
5826012368622	4488	5023	2	32
1270012383662	4488	5023	1	16
1270012383662	4488	5025	4	64
5841011423785	4488	5026	1	16
5841011435912	4488	5027	3	48
5841012029769	4488	5029	1	16
5895010537839	4488	5031	2	32
5841012827093	4488	5032	2	32
5895009992411	4488	5032	2	32
5841010891064	4488	5033	2	32
5841011435912	4488	5033	12	192
5841011435912	4488	5034	5	80
5821012587579	4488	5037	2	32
6605005012379	4488	5038	2	32
5895005071381	4488	5038	2	32
5895001602198	4488	5039	2	32
6615010181635	4488	5040	1	16
5826010121938	4488	5040	2	32

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6620005154541	4488	5041	2	32
5826010121938	4488	5041	2	32
5945011709363	4488	5044	2	32
5895001602198	4488	5044	2	32
5895011126380	4488	5045	2	32
5821010704695	4488	5046	2	32
5821010621019	4488	5046	1	16
6625008954446	4488	5048	1	16
5841011435912	4488	5052	4	64
6620005154541	4488	5053	2	32
5841010918929	4488	5054	2	32
5841011435912	4488	5054	2	32
6620005154541	4488	5055	2	32
5841012644422	4488	5055	1	16
5841012827093	4488	5058	1	16
6680010928262	4488	5059	2	32
5821012287058	4488	5060	4	64
6615009732218	4488	5061	2	32
6615013169054	4488	5062	6	96
5821010979133	4488	5065	6	96
5826002411011	4488	5066	2	32
5826002411011	4488	5067	6	96
5895012489012	4488	5068	2	32
5985012575597	4488	5069	4	64
6625004713174	4488	5070	2	32
5841011435912	4488	5072	2	32
5826010409798	4488	5073	2	32
6615013619746	4488	5074	2	32
5998013227746	4488	5075	1	16
6615005759682	4488	5076	2	32
5841011435912	4488	5079	2	32
6615010358996	4488	5081	2	32
6615013619746	4488	5087	1	16
6625011938861	4488	5088	1	16
4920010347681	4497	4327	1	16
4920012917299	4497	4332	1	16
5985010890737	4497	4339	1	16
4920013126007	4497	4342	1	16
4920010347681	4497	4344	4	64
6615010453888	4497	4347	2	32
5998012898541	4497	4353	1	16
6615012477291	4497	4354	1	16
5998011908294	4497	4356	1	16
6615010471190	4497	4357	2	32
6615010471190	4497	4358	1	16
6610005061745	4497	4360	1	16

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6610000180683	4497	4361	1	16
6610000180682	4497	4362	2	32
6615010471190	4497	4363	1	16
6615012477292	4497	4364	2	32
6610001691601	4497	5001	1	16
6615010453889	4497	5002	2	32
6615012620502	4497	5003	2	32
6610000180682	4497	5004	4	64
6615004117976	4497	5005	2	32
6615010471190	4497	5006	2	32
5998011909307	4497	5007	2	32
6615001633181	4497	5008	2	32
5998012898541	4497	5010	1	16
6610005061745	4497	5012	4	64
5985010890737	4497	5012	2	32
5998012898541	4497	5013	2	32
6610001691601	4497	5014	2	32
6610005061745	4497	5015	2	32
4920012521094	4497	5016	2	32
6615010471190	4497	5017	2	32
4920001344902	4497	5018	2	32
6110011976781	4497	5019	2	32
6615010453889	4497	5020	2	32
5841010918929	4497	5022	1	16
6610005061745	4497	5023	2	32
4920012034183	4497	5024	4	64
5810000613386	4497	5024	2	32
6615010471190	4497	5025	3	48
4920012802786	4497	5026	2	32
5895011287267	4497	5027	2	32
6615010453888	4497	5029	1	16
5998011908296	4497	5029	2	32
6610000180682	4497	5030	1	16
6615010453887	4497	5030	2	32
4920012007194	4497	5031	2	32
6615010471190	4497	5032	2	32
6610001691601	4497	5033	2	32
5985010890737	4497	5034	2	32
6615010471190	4497	5036	4	64
6610011326661	4497	5038	2	32
6615005370580	4497	5039	2	32
4920000782418	4497	5040	2	32
6610001691601	4497	5041	1	16
6615010471190	4497	5042	2	32
6610000180682	4497	5043	2	32
6615010471190	4497	5044	2	32
5810012737820	4497	5045	2	32

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6615010471190	4497	5046	2	32
4920001344902	4497	5047	2	32
6110011976781	4497	5048	2	32
6610011326660	4497	5049	2	32
6615005370580	4497	5051	2	32
4920004868836	4497	5052	2	32
4920011185129	4497	5053	1	16
5998011917007	4497	5054	2	32
4920012034183	4497	5055	2	32
4920012521094	4497	5056	1	16
6110011976781	4497	5058	1	16
5895010620002	4515	5030	1	16
5895010620002	4515	5030	1	16
5826006269874	4515	5037	2	32
5865013077305	4528	4165	1	16
1280012302685	4528	4255	4	64
5810012737820	4528	4287	2	32
5985002244175	4528	4313	2	32
5895010720788	4528	4314	2	32
1280001866244	4528	4319	2	32
5865012348470	4528	4327	2	32
5865012348472	4528	4334	2	32
6625004713174	4528	4335	2	32
5865012348472	4528	4336	2	32
5865012365734	4528	4340	4	64
5895012919918	4528	4341	2	32
5895003037577	4528	4342	2	32
5865013077305	4528	4343	2	32
5826010784935	4528	4346	1	16
1280011509022	4528	4348	2	32
5895012199387	4528	4349	1	16
5865013077305	4528	4350	4	64
5865013077305	4528	4350	2	32
5985012902072	4528	4353	2	32
5841011274935	4528	4354	1	16
1280001596180	4528	4355	1	16
5865012556889	4528	4356	4	64
1280001596180	4528	4356	2	32
5865013077305	4528	4356	2	32
1280002501236	4528	4361	1	16
5865012348472	4528	4362	4	64
5865012348472	4528	4362	2	32
1280011509022	4528	4363	2	32
5895012919918	4528	4364	4	64
5826005051020	4528	4364	2	32

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5865012348472	4528	5004	2	32
5865012365734	4528	5005	4	64
5821010649794	4528	5005	2	32
5865012348471	4528	5006	4	64
5895012242177	4528	5009	2	32
6615012258215	4528	5010	2	32
5821010621019	4528	5010	1	16
5821001490676	4528	5010	2	32
5865000999351	4528	5011	2	32
5865012348470	4528	5011	4	64
6615012253746	4528	5012	2	32
5865012556889	4528	5012	4	64
5865012365734	4528	5013	6	96
6645009508599	4528	5019	2	32
5865013087671	4528	5019	1	16
5865013115110	4528	5019	4	64
6645001506526	4528	5020	1	16
5895012242177	4528	5023	5	80
5865012348470	4528	5023	2	32
6130010573396	4528	5023	2	32
5895012919918	4528	5024	2	32
6645001506526	4528	5024	2	32
6615009224467	4528	5025	4	64
5865011521792	4528	5025	2	32
5865010876670	4528	5026	4	64
5865012348470	4528	5026	4	64
5865012365734	4528	5026	6	96
5895000395461	4528	5027	1	16
5821001866309	4528	5027	2	32
1280012270719	4528	5028	1	16
1280012270719	4528	5028	1	16
5895012171470	4528	5031	2	32
5895012242177	4528	5031	4	64
5895012242177	4528	5032	2	32
6645001506526	4528	5032	2	32
1280011509022	4528	5033	3	48
5895012242177	4528	5034	2	32
5895000894522	4528	5034	4	64
6615011955288	4528	5037	2	32
5895012242177	4528	5038	2	32
5895010720788	4528	5038	4	64
5865012348472	4528	5039	6	96
5895012242177	4528	5040	4	64
5865011487930	4528	5041	2	32
6125006358795	4528	5041	4	64
5985005205875	4528	5045	2	32
5865012348470	4528	5046	2	32

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5821012287058	4528	5046	4	64
5865012365734	4528	5047	2	32
6615012253746	4528	5047	2	32
5865012348472	4528	5048	2	32
5821001866309	4528	5048	2	32
5895010981156	4528	5052	2	32
5865011487930	4528	5052	4	64
5985004319944	4528	5053	2	32
6615012253746	4528	5053	2	32
5865012348471	4528	5054	2	32
5895012242177	4528	5054	2	32
5865012348472	4528	5055	4	64
5865010887202	4528	5055	2	32
5821011046155	4528	5058	2	32
5895000395461	4528	5059	2	32
5865013077305	4528	5061	12	192
5895011549125	4528	5062	6	96
5865013249101	4528	5067	2	32
5865012348472	4528	5068	4	64
1280001596180	4528	5069	4	64
5895011549125	4528	5072	4	64
5895011549125	4528	5075	4	64
5895012242177	4528	5076	2	32
5865011521792	4528	5079	6	96
5865012556889	4528	5080	13	208
6645001506526	4528	5081	2	32
6645008805927	4528	5082	2	32
6645009508599	4528	5083	2	32
5865010876670	4528	5086	4	64
586500999351	4528	5087	1	16
5831005195882	4600	4290	2	32
5810000613386	4600	4347	1	16
5865013077305	4600	4348	2	32
5826010121938	4600	4349	2	32
5826005053094	4600	4354	2	32
5841010568647	4600	4355	2	32
5826001345977	4600	4361	4	64
5826010124864	4600	4363	2	32
5985011515848	4600	5003	2	32
5841010568647	4600	5004	1	16
5826002755781	4600	5005	2	32
5841010568647	4600	5005	1	16
5841010781344	4600	5009	2	32
5826001345971	4600	5010	6	96
6610008792788	4600	5010	1	16
5841010693756	4600	5011	2	32

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6645001506526	4600	5012	2	32
5826001345984	4600	5017	2	32
5826001345977	4600	5019	1	16
5826001345977	4600	5019	1	16
5826005053097	4600	5023	1	16
5841010568647	4600	5023	2	32
5826001345977	4600	5024	1	16
5826001345977	4600	5024	1	16
5826001345977	4600	5027	2	32
5985011041424	4600	5033	2	32
5826001345977	4600	5038	2	32
5826001345977	4600	5039	2	32
6645001506526	4600	5040	2	32
6615009732218	4600	5041	2	32
6615009732218	4600	5044	2	32
6615009732218	4600	5045	2	32
5826001345977	4600	5045	2	32
6625004713174	4600	5046	2	32
6625004713174	4600	5047	2	32
5826001345971	4600	5047	1	16
5826001345971	4600	5048	2	32
5826001345967	4600	5052	1	16
6615009732218	4600	5055	2	32
6615009732218	4600	5059	4	64
5826010121938	4600	5061	2	32
5990007178111	4600	5062	2	32
5826001345971	4600	5065	2	32
1280011226908	4600	5066	2	32
5826001345979	4600	5068	4	64
5826001345977	4600	5069	2	32
5826001345979	4600	5072	1	16
5826001345977	4600	5073	6	96
6605008985597	4600	5074	2	32
5841012827090	4600	5075	2	32
6605011375957	4600	5079	2	32
5826001345977	4600	5081	1	16
5841001345975	4600	5086	2	32
5810010508115	4608	4242	3	48
5810010508115	4608	4284	2	32
1280011512272	4608	4340	2	32
5865012556889	4608	4341	2	32
1280011512272	4608	4343	2	32
1280011882610	4608	4346	3	48
1280001866244	4608	4348	2	32
1280011882610	4608	4349	2	32
5826007210168	4608	4350	1	16

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5985005205875	4608	4353	2	32
5836012872061	4608	4354	2	32
1280011512272	4608	4355	5	80
5895012242177	4608	4356	3	48
5865007836261	4608	4357	1	16
6605010987557	4608	4361	2	32
6605010987557	4608	4362	2	32
5821010569616	4608	4363	1	16
5985012902072	4608	5003	4	64
5865013252225	4608	5004	4	64
5865013252225	4608	5005	4	64
5865012348472	4608	5006	6	96
1280012270719	4608	5006	2	32
5895012199387	4608	5009	4	64
5865010876670	4608	5010	4	64
6615012258215	4608	5010	2	32
5865010876670	4608	5011	6	96
1280012287260	4608	5011	4	64
5895011549125	4608	5012	8	128
6130010573396	4608	5012	2	32
5865010876670	4608	5013	4	64
5865012348472	4608	5017	6	96
5810012737820	4608	5017	2	32
6645001506526	4608	5018	2	32
5895012242177	4608	5019	2	32
5985005205875	4608	5019	2	32
5821012287058	4608	5020	6	96
5865012348472	4608	5020	4	64
6645009508599	4608	5021	2	32
1280011512272	4608	5021	4	64
5831009993916	4608	5022	1	16
1280002501236	4608	5024	4	64
5985005205875	4608	5024	2	32
6615011072569	4608	5025	6	96
1280011207216	4608	5025	2	32
1280001596185	4608	5026	4	64
5865012365734	4608	5026	2	32
5865011487930	4608	5027	3	48
1280011163832	4608	5027	2	32
5865013252225	4608	5027	4	64
5865010211647	4608	5030	1	16
1280012302685	4608	5030	2	32
5826005050992	4608	5031	6	96
1280011163832	4608	5032	1	16
5895011549125	4608	5032	8	128
1280011207216	4608	5033	1	16
5865011521792	4608	5033	8	128

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5826013109882	4608	5034	2	32
1280001866298	4608	5034	4	64
1280012288051	4608	5038	2	32
5895011549125	4608	5038	4	64
5985005205875	4608	5039	2	32
5895000395486	4608	5039	4	64
1280011882610	4608	5040	2	32
1280001596185	4608	5040	4	64
1280012288051	4608	5041	2	32
5821001866309	4608	5041	6	96
1280011063368	4608	5044	2	32
5865013077305	4608	5044	4	64
5865000999352	4608	5045	2	32
5865012348470	4608	5045	2	32
5826007210168	4608	5046	2	32
5865013077305	4608	5046	8	128
1280012288051	4608	5047	2	32
5865012110140	4608	5047	2	32
1280011207216	4608	5048	2	32
5895012199387	4608	5048	4	64
5895011549125	4608	5049	2	32
5865013249101	4608	5052	4	64
1280001866244	4608	5053	2	32
5895000894522	4608	5053	4	64
5865009523204	4608	5054	1	16
5895012919918	4608	5054	4	64
1280011509022	4608	5055	4	64
5865013115110	4608	5055	4	64
5985012902072	4608	5058	2	32
1280011509022	4608	5058	1	16
5865013077305	4608	5059	4	64
5865013252225	4608	5060	4	64
1280011163832	4608	5061	2	32
5821001866309	4608	5062	4	64
5865012365734	4608	5065	4	64
5865013369219	4608	5066	2	32
5865012348470	4608	5067	4	64
5865009523204	4608	5068	4	64
5865012348470	4608	5069	6	96
5865012348472	4608	5070	2	32
5865010887202	4608	5072	3	48
5895011549125	4608	5073	6	96
5865011521792	4608	5074	4	64
5821001866309	4608	5075	4	64
5895000395456	4608	5076	6	96
5841010781344	4608	5079	2	32
5865012348470	4608	5080	2	32

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5865011521792	4608	5081	6	96
5865013249101	4608	5082	4	64
5895012242177	4608	5083	8	128
5841010693756	4608	5087	2	32
6615012253746	4608	5088	2	32
5895012919918	4608	5089	2	32
5826001351888	4616	5053	2	32
5826006112389	4616	5054	2	32
5831005195883	4616	5069	1	16
1280009841063	4616	5081	1	16
5841010537874	4620	4332	2	32
5985012827891	4620	4348	1	16
5841010568647	4620	4349	1	16
6615009732218	4620	4355	2	32
5826010456683	4620	4356	1	16
6605011375957	4620	4357	1	16
5985010537676	4620	4361	1	16
5821012287058	4620	4363	4	64
5826001345977	4620	4364	2	32
6625004713174	4620	5003	2	32
6605010182181	4620	5004	2	32
6625004713174	4620	5005	2	32
5841008047159	4620	5005	1	16
6605010182181	4620	5006	2	32
5985012827891	4620	5009	2	32
6605010182181	4620	5010	2	32
6605005569318	4620	5011	3	48
5826005053094	4620	5012	2	32
5821011038155	4620	5013	4	64
5821012587579	4620	5017	2	32
6130010568665	4620	5018	4	64
6615009732218	4620	5018	2	32
5985011041424	4620	5019	2	32
6130010568665	4620	5020	2	32
6605011375957	4620	5020	2	32
5841010537872	4620	5023	2	32
6605008985597	4620	5023	2	32
6605010182181	4620	5024	3	48
5821012287058	4620	5024	1	16
5826001345972	4620	5025	2	32
6605010182181	4620	5026	2	32
5826001345982	4620	5026	2	32
5841008047159	4620	5027	1	16
6605010182181	4620	5027	4	64
5985010537676	4620	5030	2	32

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6645001506526	4620	5031	2	32
6605006208635	4620	5032	2	32
6615009732218	4620	5033	2	32
5841012827091	4620	5033	4	64
6615009732218	4620	5037	2	32
5826001345971	4620	5037	4	64
6645009508599	4620	5038	2	32
5826001345977	4620	5038	4	64
6615009732218	4620	5039	4	64
5841010568647	4620	5039	2	32
6615009732218	4620	5040	2	32
5826001345972	4620	5040	2	32
6605011375957	4620	5041	1	16
5985012827891	4620	5041	2	32
5841012827093	4620	5042	2	32
6605005012379	4620	5045	2	32
6615009732218	4620	5046	2	32
5841012827091	4620	5046	2	32
5821013115105	4620	5047	2	32
6605006719631	4620	5052	2	32
5826001345977	4620	5052	4	64
6130010568665	4620	5053	2	32
6130010568665	4620	5053	2	32
5831005195883	4620	5054	2	32
5841010693756	4620	5055	2	32
5895000894522	4620	5058	4	64
6605006719631	4620	5059	2	32
5841010537874	4620	5060	2	32
5841010568647	4620	5061	2	32
5985012827891	4620	5065	4	64
5841012827093	4620	5066	3	48
5826009178679	4620	5067	2	32
6645001506526	4620	5068	3	48
5831005195883	4620	5069	2	32
5895000894522	4620	5072	2	32
5826001345977	4620	5073	6	96
5895000894522	4620	5074	2	32
5826001345974	4620	5076	2	32
5841012827091	4620	5079	4	64
5841012827093	4620	5080	2	32
6615012253745	4620	5081	2	32
6605005659797	4620	5082	2	32
5826001345972	4620	5083	4	64
6605010182181	4620	5086	2	32
6605005569318	4620	5087	2	32
6695011577072	4620	5088	2	32

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5810010508115	4621	4333	2	32
5985012827891	4621	4336	2	32
6615009732218	4621	4343	2	32
5841010568647	4621	4347	3	48
5841010568647	4621	4348	2	32
6615012258139	4621	4349	1	16
5895010537839	4621	4350	1	16
5841010537874	4621	4354	2	32
6605005012379	4621	4355	1	16
5826001345977	4621	4356	2	32
6615012258139	4621	4357	1	16
6605005569318	4621	4362	4	64
5895000894522	4621	4363	4	64
5985011515848	4621	4364	2	32
5841012830065	4621	5003	2	32
5821013115105	4621	5004	4	64
5821011038155	4621	5005	3	48
5841012827090	4621	5006	2	32
6615012253744	4621	5009	2	32
5810000613386	4621	5009	2	32
6615012253745	4621	5011	2	32
5841010568647	4621	5012	2	32
5826001345967	4621	5013	1	16
6615012253745	4621	5017	2	32
6615012253745	4621	5018	2	32
6605011375957	4621	5019	2	32
5826001345971	4621	5020	2	32
5826001345966	4621	5024	2	32
5821012287058	4621	5025	2	32
5841012827093	4621	5026	2	32
6610007269394	4621	5026	2	32
5831005195883	4621	5027	2	32
5821012287058	4621	5030	1	16
5810010508115	4621	5030	1	16
5895000894522	4621	5030	2	32
6645001506526	4621	5031	2	32
5985012827891	4621	5032	4	64
5895000894522	4621	5033	4	64
6605008985597	4621	5034	2	32
6605005012379	4621	5037	2	32
5826001345977	4621	5038	2	32
5826010121938	4621	5039	2	32
6605006202801	4621	5040	2	32
5895000894522	4621	5041	2	32
6615009732218	4621	5044	2	32
5826001345982	4621	5044	2	32
5821012587579	4621	5045	2	32

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5821013115105	4621	5047	2	32
6605011375957	4621	5048	2	32
5841012827090	4621	5052	2	32
5895000894522	4621	5053	4	64
5826001345977	4621	5054	2	32
6645009508599	4621	5055	2	32
5831005195883	4621	5058	2	32
6615009732218	4621	5059	2	32
5826009178679	4621	5060	2	32
5841010568647	4621	5061	2	32
5841010568647	4621	5065	2	32
5841012827091	4621	5066	2	32
5841008047159	4621	5067	2	32
6610008792788	4621	5068	2	32
6610008792788	4621	5069	2	32
6615012258139	4621	5072	2	32
5841010568647	4621	5074	4	64
6615012258139	4621	5075	2	32
6615012258139	4621	5076	2	32
6605008985597	4621	5079	2	32
6605006719631	4621	5080	2	32
6605008329691	4621	5081	2	32
5841010693756	4621	5082	2	32
6605005040935	4621	5083	2	32
5826001345977	4621	5087	2	32
5841010568647	4621	5089	1	16
5826010409798	4625	4361	2	32
6645001506526	4625	5003	2	32
6615005759682	4625	5005	2	32
5895010485194	4625	5018	1	16
5895010485194	4625	5018	1	16
5821010621019	4625	5020	2	32
6695013434006	4625	5030	1	16
5826010121938	4625	5030	2	32
1270011126862	4625	5037	2	32
5810010842200	4625	5044	1	16
5810010842200	4625	5044	1	16
5821013123525	4625	5045	1	16
5895011126380	4625	5047	2	32
5895011126380	4625	5052	2	32
5821010031336	4625	5053	2	32
5821011376301	4625	5054	2	32
5826010121919	4625	5062	1	16
6645001506526	4625	5073	2	32
6695013434006	4625	5074	2	32
5821011376301	4625	5080	3	48

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6695012013554	4625	5081	2	32
5841010537874	4626	4348	1	16
6615009732218	4626	4355	1	16
5841012827090	4626	4362	1	16
6605006517991	4626	4363	2	32
6615012258139	4626	5003	2	32
5826001345979	4626	5004	2	32
6615011382369	4626	5005	2	32
5821012587579	4626	5006	1	16
5985011041424	4626	5009	2	32
5985012827891	4626	5010	2	32
5826001345970	4626	5011	1	16
5895000894522	4626	5013	2	32
6605011375957	4626	5017	2	32
5985011041424	4626	5019	1	16
5841012827091	4626	5020	2	32
5826001345977	4626	5020	2	32
5815011251526	4626	5023	2	32
5895010701444	4626	5025	2	32
6615012258139	4626	5027	2	32
5821013115105	4626	5027	1	16
6605010352009	4626	5030	2	32
5826012371912	4626	5034	2	32
5985012827891	4626	5038	2	32
5826001345971	4626	5038	4	64
5841008047159	4626	5039	1	16
5810010508115	4626	5040	2	32
5841001345975	4626	5048	2	32
5815011251526	4626	5052	2	32
5841012827093	4626	5058	2	32
5821012866543	4626	5059	2	32
6605006208635	4626	5061	2	32
5821013115105	4626	5062	2	32
5985012827891	4626	5066	2	32
5841012827093	4626	5075	2	32
5841012827093	4626	5081	2	32
5826009178679	4626	5082	2	32
6615012258139	4626	5086	2	32
6605011375957	4626	5089	1	16
5810012737820	4654	4258	2	32
4920011548792	4654	4291	2	32
4920011548792	4654	4291	1	16
5826009178679	4654	4343	1	16
5841010693756	4654	4354	1	16
5821010772503	4654	4362	2	32

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6130010573396	4654	5006	2	32
5841001345975	4654	5009	1	16
5895003477178	4654	5010	2	32
5826001345982	4654	5011	2	32
5826001345976	4654	5017	2	32
5985012827891	4654	5018	1	16
6605005659797	4654	5020	2	32
5821010621019	4654	5023	2	32
5821010621019	4654	5023	2	32
6615012258139	4654	5025	1	16
5841010537874	4654	5025	2	32
5826001345973	4654	5027	1	16
5826001345968	4654	5027	2	32
5826009902331	4654	5031	2	32
5821010621019	4654	5037	4	64
6615012258139	4654	5038	2	32
5895004263144	4654	5039	2	32
5826001345977	4654	5041	1	16
6605005569318	4654	5044	4	64
5865011106043	4654	5045	2	32
5841012827091	4654	5045	2	32
5826001345977	4654	5047	1	16
6615012258214	4654	5048	4	64
5826010130861	4654	5053	1	16
5841012827091	4654	5059	2	32
5985011041424	4654	5061	2	32
5841008047159	4654	5065	2	32
5841012827091	4654	5066	1	16
5831005195883	4654	5073	2	32
5841012827091	4654	5074	1	16
5826004445276	4654	5076	2	32
5831005195883	4654	5079	4	64
5826010121938	4654	5081	1	16
6615012258139	4654	5086	2	32
6615012258139	4659	4050	2	32
4920011548792	4659	4305	2	32
4920011548792	4659	4305	1	16
5985012827891	4659	4350	2	32
5895000894522	4659	4354	2	32
5985012827891	4659	4355	1	16
5985012827891	4659	4362	1	16
6645009508599	4659	4363	2	32
5826009902331	4659	4364	2	32
5841012827093	4659	4364	2	32
6615012253745	4659	5003	2	32
5810000613386	4659	5003	2	32

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5831005195881	4659	5004	2	32
6645001506526	4659	5005	2	32
6615012258139	4659	5006	2	32
5826001345972	4659	5009	2	32
5841010568647	4659	5011	2	32
5810010508115	4659	5011	2	32
6615012258139	4659	5012	2	32
5821012587579	4659	5013	2	32
5841008047159	4659	5013	2	32
5826001345977	4659	5018	4	64
5826010121938	4659	5019	4	64
5985012827891	4659	5020	2	32
5826001345977	4659	5023	4	64
5841010568647	4659	5023	6	96
6605011375957	4659	5024	2	32
5841012827091	4659	5025	2	32
5826001345979	4659	5026	1	16
5826010124864	4659	5026	2	32
5826009178679	4659	5027	2	32
6645001506526	4659	5027	2	32
6605011375957	4659	5031	2	32
6615012258139	4659	5032	2	32
5841012827093	4659	5033	6	96
5831005195883	4659	5034	4	64
5821012866543	4659	5035	1	16
5810010508115	4659	5037	1	16
6615012258139	4659	5037	2	32
5831005195883	4659	5038	6	96
5841012827091	4659	5039	2	32
6605006202801	4659	5040	1	16
5841012827091	4659	5040	2	32
5841010537874	4659	5044	2	32
6615009732218	4659	5044	2	32
6615009732218	4659	5046	2	32
5985012827891	4659	5047	2	32
6130011827382	4659	5052	1	16
6615012261012	4659	5052	2	32
6605006202801	4659	5053	2	32
5841012827091	4659	5054	2	32
5826010121938	4659	5055	2	32
5895000894522	4659	5058	3	48
5895000894522	4659	5058	3	48
5826001345977	4659	5061	2	32
5841012827093	4659	5065	4	64
5841010568647	4659	5066	2	32
5826002755781	4659	5067	2	32
5841012827093	4659	5068	2	32

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5985012827891	4659	5069	2	32
5985012827891	4659	5072	3	48
5895009001196	4659	5074	2	32
6605006719631	4659	5075	2	32
5895009001196	4659	5076	2	32
6605006719631	4659	5079	6	96
6615009732218	4659	5080	2	32
5985012827891	4659	5081	4	64
5841012827093	4659	5082	4	64
5841012827093	4659	5083	4	64
5841012827093	4659	5088	2	32
5985012827891	4659	5089	1	16
5810010269624	4661	4294	2	32
5895001491319	4661	4319	2	32
5895011126380	4661	4321	2	32
5821013115105	4661	4332	4	64
6615009732218	4661	4333	2	32
6615009732218	4661	4336	2	32
5895011126380	4661	4341	2	32
5895011126380	4661	4343	2	32
5810000613386	4661	4346	1	16
6615009732218	4661	4346	2	32
5810000613386	4661	4347	2	32
5810000613386	4661	4347	1	16
5895011126380	4661	4347	2	32
5815011251526	4661	4348	2	32
5821011659342	4661	4350	2	32
5810000613386	4661	4355	2	32
5840010073959	4661	4357	2	32
6615009732218	4661	4364	2	32
6615009732218	4661	4364	2	32
5895011126380	4661	5004	2	32
5841012029769	4661	5005	1	16
5815011251526	4661	5005	2	32
6625008954446	4661	5006	2	32
5821011659342	4661	5011	2	32
5821010621019	4661	5012	2	32
6615009732218	4661	5012	2	32
5810000613386	4661	5013	2	32
5826010121938	4661	5017	8	128
5810000613386	4661	5017	8	128
5841012827093	4661	5018	2	32
5841011274935	4661	5019	2	32
6615009732218	4661	5023	2	32
5821011659342	4661	5023	2	32
5895011126380	4661	5024	2	32

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5895001602198	4661	5025	2	32
5821012287058	4661	5025	2	32
5821012287058	4661	5026	2	32
6130010568665	4661	5026	2	32
5841012827093	4661	5026	2	32
5821010651677	4661	5027	2	32
5895011126380	4661	5031	2	32
5985010537675	4661	5031	2	32
5821010651677	4661	5032	2	32
5810000613386	4661	5032	30	480
5841011274935	4661	5033	2	32
5810000613386	4661	5033	12	192
5821011659342	4661	5034	4	64
5810000613386	4661	5034	14	224
5810000613386	4661	5037	15	240
5810000613386	4661	5037	4	64
6645000763050	4661	5038	4	64
6615009732218	4661	5040	3	48
5810000613386	4661	5040	8	128
5826002411011	4661	5041	2	32
5998011661324	4661	5045	1	16
5821012587579	4661	5045	1	16
5841012827093	4661	5046	2	32
6610011806298	4661	5052	1	16
6615009732218	4661	5053	2	32
5895001602198	4661	5053	2	32
5841011274935	4661	5055	6	96
5815010564186	4661	5058	2	32
6620011835122	4661	5059	3	48
5998013023458	4661	5060	4	64
6615012768318	4661	5061	1	16
5841012827093	4661	5062	2	32
5895011126380	4661	5066	2	32
5999012704819	4661	5067	2	32
5895011126380	4661	5068	2	32
5841012029769	4661	5069	2	32
1660011486207	4661	5072	2	32
5821011376301	4661	5073	2	32
6645009508599	4661	5074	2	32
6615011793976	4661	5075	4	64
5841011274935	4661	5076	2	32
5841010568647	4661	5079	2	32
5841011435778	4661	5081	1	16
5841010042227	4661	5083	6	96
5895001491319	4661	5086	1	16
5985012827892	4661	5087	1	16

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5810010508116	4664	4271	2	32
5810000613386	4664	4342	2	32
5810010508115	4664	4355	2	32
6645001506526	4664	5004	2	32
6615009732218	4664	5005	2	32
5810000613386	4664	5006	4	64
5815010564186	4664	5011	2	32
5810000613386	4664	5012	2	32
5826001345977	4664	5013	1	16
5841001345975	4664	5017	2	32
5810000613386	4664	5018	2	32
5810000613386	4664	5019	2	32
5810000613386	4664	5020	2	32
5895012278845	4664	5027	1	16
5895012278845	4664	5027	1	16
6645009508599	4664	5032	2	32
5810000613386	4664	5033	2	32
5841001345975	4664	5033	2	32
5810012737820	4664	5034	2	32
5841001345975	4664	5040	1	16
6615012258139	4664	5041	2	32
6605005569318	4664	5047	2	32
5826001345974	4664	5052	1	16
6605005569318	4664	5052	1	16
6645001506526	4664	5058	2	32
5821013123525	4664	5060	2	32
5826009178679	4664	5061	2	32
5826001345973	4664	5067	1	16
5895001602198	4664	5076	2	32
5895001602198	4664	5082	1	16
5895012278845	4664	5087	3	48
6605010182181	4672	4348	4	64
6605006719631	4672	4350	2	32
5826009178679	4672	4350	1	16
5985012827891	4672	4354	2	32
5895010512651	4672	4356	2	32
5895000894522	4672	4357	2	32
6605010182181	4672	4363	2	32
5821012287058	4672	4364	2	32
5895000894522	4672	5003	2	32
5841012827093	4672	5004	2	32
5841010568647	4672	5005	2	32
5826001345977	4672	5006	1	16
5826001345968	4672	5010	2	32
6645001506526	4672	5011	2	32
5826001345977	4672	5013	1	16

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6605010182181	4672	5018	2	32
6605010182181	4672	5018	1	16
5826001345972	4672	5025	2	32
6605010182181	4672	5025	2	32
5895000894522	4672	5027	2	32
6605010182181	4672	5027	2	32
6625008954446	4672	5030	2	32
5821012287058	4672	5032	2	32
5895000894522	4672	5034	2	32
5826001345977	4672	5038	1	16
6645003274005	4686	5004	2	32
5821011376301	4686	5020	2	32
5826010121938	4686	5031	2	32
5821012137333	4686	5038	2	32
5821012137333	4686	5059	2	32
5821011376301	4686	5069	3	48
6610009913858	4686	5076	2	32
5998012151814	4690	4064	1	16
5810012737820	4690	4325	2	32
5810000613386	4690	4334	2	32
5810000613386	4690	4341	2	32
5821012866543	4690	4343	1	16
5810012737820	4690	4348	2	32
5895012278845	4690	4350	3	48
5865013115110	4690	4356	1	16
5821010651677	4690	4357	2	32
6130007584485	4690	4362	2	32
5821010651677	4690	5005	4	64
5865010876670	4690	5009	2	32
4810013353160	4690	5011	2	32
1280012261145	4690	5012	2	32
5821012287058	4690	5013	4	64
5826010121938	4690	5019	2	32
5821012287058	4690	5020	4	64
5810010508115	4690	5020	2	32
5821012287058	4690	5021	2	32
1280011163832	4690	5023	1	16
1280011163832	4690	5023	1	16
5821013117551	4690	5024	1	16
5821013117551	4690	5024	1	16
5826010409798	4690	5025	2	32
5810010508115	4690	5026	2	32
5865012348470	4690	5026	2	32
5895000395461	4690	5031	2	32
5841011274935	4690	5032	2	32

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5895000395456	4690	5033	2	32
5821012287058	4690	5038	2	32
5810012737820	4690	5039	2	32
5841011274935	4690	5040	4	64
5810012737820	4690	5041	2	32
5841011274935	4690	5041	4	64
5865013077305	4690	5045	2	32
5826010124864	4690	5047	2	32
5821012866543	4690	5049	2	32
5821012587579	4690	5052	2	32
5865012348471	4690	5053	2	32
5821012587579	4690	5053	1	16
5865012365734	4690	5054	2	32
1280002501236	4690	5054	1	16
5895010620002	4690	5055	2	32
6610012594655	4690	5056	2	32
5810012737820	4690	5058	2	32
5841011274935	4690	5059	6	96
1280001596180	4690	5060	2	32
5895011126380	4690	5061	2	32
5998012151813	4690	5065	10	160
5865013077305	4690	5066	2	32
6620011644913	4690	5067	2	32
5985000987346	4690	5068	2	32
1280011512272	4690	5069	2	32
5998011793982	4690	5070	4	64
5821012587579	4690	5072	2	32
5998013039376	4690	5073	8	128
5831009993916	4690	5074	2	32
6610012184287	4690	5075	2	32
6610011814398	4690	5076	2	32
5998011811313	4690	5079	4	64
5998011793977	4690	5080	3	48
5998011787809	4690	5081	4	64
6620011829328	4690	5082	2	32
6610011806298	4690	5084	5	80
5950011899159	4690	5086	2	32
5998013039377	4690	5088	1	16
5999012147410	4690	5089	1	16
1680010652355	4800	4301	1	16
6610000000122	4800	4319	2	32
5895011126380	4800	4320	2	32
5895002625018	4800	4340	1	16
5895012731990	4800	4342	2	32
5841011007363	4800	4343	2	32
6620001249515	4800	4346	1	16

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5841011007363	4800	4355	2	32
5841011007363	4800	4356	2	32
1680010652355	4800	4362	2	32
6610001342259	4800	4364	4	64
6615002624314	4800	5003	1	16
5955010226196	4800	5004	2	32
6610010379144	4800	5005	2	32
5895013296324	4800	5006	3	48
6615010154794	4800	5007	2	32
6680011033419	4800	5009	2	32
5836010512886	4800	5009	2	32
5895013296324	4800	5010	3	48
6615002624314	4800	5010	2	32
6605001491134	4800	5011	2	32
5865012112335	4800	5011	2	32
5826010603893	4800	5012	2	32
5895001602198	4800	5012	2	32
6605001491134	4800	5013	2	32
5865011003768	4800	5013	2	32
5821012287058	4800	5014	1	16
5821012287058	4800	5017	4	64
6610001342259	4800	5018	2	32
5895010959593	4800	5018	1	16
6615010950962	4800	5019	2	32
6610002963574	4800	5020	4	64
6610001342259	4800	5020	2	32
6610010379144	4800	5021	2	32
1680011596742	4800	5023	2	32
6605001491134	4800	5023	2	32
6685010482889	4800	5024	2	32
6615001377514	4800	5025	2	32
5895011126380	4800	5026	1	16
6610001342259	4800	5026	2	32
6615010950962	4800	5027	2	32
5841010588862	4800	5027	2	32
5895012731990	4800	5030	1	16
5895012731990	4800	5030	1	16
1680010652355	4800	5031	2	32
6605010940775	4800	5032	4	64
5895012731990	4800	5033	2	32
6610001342259	4800	5034	2	32
6615001377514	4800	5036	2	32
6605001491134	4800	5037	10	160
6685010482889	4800	5038	2	32
6610001342260	4800	5039	1	16
6605010940775	4800	5039	4	64
5836010512886	4800	5040	4	64

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5895010959593	4800	5041	1	16
6605001491134	4800	5044	2	32
6615001377514	4800	5045	2	32
1680011596742	4800	5046	2	32
6620001249515	4800	5048	2	32
5895012728047	4800	5048	4	64
6605010940775	4800	5049	2	32
6340003327300	4800	5052	1	16
6615010154794	4800	5053	2	32
6685010482889	4800	5053	2	32
5895011126380	4800	5054	1	16
5930011729448	4800	5058	2	32
1660011374105	4800	5059	2	32
5821012287058	4800	5060	4	64
6685010482889	4800	5061	2	32
5826010121938	4800	5062	5	80
6610002963574	4800	5066	1	16
6605001491134	4800	5067	2	32
5895013296324	4800	5068	6	96
6620001249515	4800	5069	2	32
6615001377514	4800	5070	2	32
5895013296324	4800	5073	4	64
6610000000122	4800	5074	2	32
5895013296324	4800	5075	2	32
6615001377514	4800	5076	2	32
6685010482889	4800	5077	2	32
6605010940775	4800	5079	2	32
6110010498639	4800	5080	2	32
1680010325251	4800	5081	2	32
6605001491134	4800	5082	2	32
6605010903390	4800	5086	2	32
5821012287058	4800	5087	3	48
6680011033419	4800	5088	2	32
1270013308895	4803	4353	1	16
5895011126380	4803	4361	2	32
5826010124864	4803	4363	2	32
5895013558414	4803	4364	2	32
1270012330011	4803	5003	2	32
5895011126380	4803	5005	2	32
6695013434006	4803	5006	1	16
5865013249103	4803	5009	2	32
5945011709363	4803	5010	4	64
6695012013554	4803	5011	1	16
6625011938861	4803	5012	1	16
4920011548820	4803	5013	2	32
6695013434006	4803	5017	1	16

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5895011549125	4803	5019	2	32
6615013169054	4803	5020	2	32
1270011126862	4803	5020	1	16
6605010987557	4803	5023	2	32
5895011549125	4803	5024	2	32
6680010928262	4803	5025	2	32
5826010121938	4803	5025	2	32
5998011896233	4803	5026	2	32
6695013434006	4803	5027	2	32
6625010508119	4803	5027	2	32
6615013169054	4803	5030	1	16
1290013765449	4803	5030	1	16
6615013517337	4803	5031	1	16
5821010621019	4803	5031	2	32
1270011126862	4803	5032	2	32
5821010704695	4803	5034	2	32
1270011126862	4803	5034	2	32
6625011938861	4803	5037	2	32
1290013765449	4803	5038	2	32
1270012383662	4803	5040	2	32
5831005235328	4803	5041	3	48
6615005679423	4803	5045	2	32
5895011631762	4803	5046	2	32
5865011106043	4803	5046	2	32
5831005235328	4803	5047	1	16
6615005759682	4803	5053	2	32
6695013434006	4803	5055	2	32
1270011126862	4803	5058	1	16
1270011126862	4803	5059	2	32
6695013434006	4803	5060	1	16
6625011938861	4803	5061	2	32
6605993708249	4803	5062	2	32
6615013169054	4803	5066	2	32
5895011126380	4803	5067	2	32
5895011126380	4803	5068	2	32
5826010121938	4803	5069	2	32
5826010121938	4803	5073	2	32
6615010358996	4803	5074	2	32
5826010409798	4803	5075	2	32
6680010928262	4803	5076	6	96
5895011126380	4803	5079	2	32
5826010121919	4803	5080	1	16
5895011126380	4803	5081	2	32
6615013169054	4803	5082	2	32
6605993708249	4803	5083	2	32
1270011126862	4803	5086	1	16
5895011074586	4803	5087	2	32

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5810000613386	4810	4249	2	32
5810010508115	4810	4347	2	32
5841010918929	4810	4349	2	32
5810010508115	4810	4349	2	32
5841010568647	4810	4354	2	32
5841008047159	4810	4357	1	16
5821010676728	4810	4363	2	32
6615010181635	4810	5011	2	32
5826002411011	4810	5023	4	64
5985011515848	4810	5024	2	32
5985011515848	4810	5027	2	32
5841010918929	4810	5030	2	32
5841012827093	4810	5031	4	64
5826005053094	4810	5037	2	32
5821010676728	4810	5038	2	32
5985011515848	4810	5044	2	32
6615005370580	4810	5046	2	32
6625008954446	4810	5046	1	16
6615012477292	4810	5059	4	64
5895010537839	4810	5066	1	16
5826005052222	4810	5073	1	16
5985012827891	4810	5074	1	16
6620005154541	4810	5076	2	32
6610003293495	4819	4097	1	16
5810010508115	4819	4336	1	16
5836010512886	4819	4343	4	64
6615009732218	4819	4346	2	32
5865011449320	4819	4348	2	32
6130010548810	4819	4355	2	32
6685010482889	4819	4356	1	16
1270010469884	4819	4357	2	32
5895010444987	4819	4361	2	32
1270010469884	4819	4362	2	32
5826010121938	4819	4363	2	32
5895012728047	4819	4364	2	32
1680011596742	4819	5003	2	32
1680011596742	4819	5004	4	64
6685010482889	4819	5005	4	64
6685010482889	4819	5006	2	32
5895011126380	4819	5007	6	96
5895010891808	4819	5009	2	32
5821012287058	4819	5010	4	64
6610001342259	4819	5011	2	32
6610010379144	4819	5012	2	32
6685010482889	4819	5013	2	32

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6615001377514	4819	5014	2	32
6610007198446	4819	5018	2	32
5895001491319	4819	5018	2	32
6685010482889	4819	5019	4	64
5810010269624	4819	5019	2	32
6110005390411	4819	5020	3	48
6110010498639	4819	5021	2	32
6685010482889	4819	5023	2	32
6610003616686	4819	5024	2	32
6685010482889	4819	5025	4	64
5895012728047	4819	5026	4	64
6130010548810	4819	5026	2	32
6685010482889	4819	5027	2	32
6610011676617	4819	5027	1	16
6610010379144	4819	5028	2	32
6610005357722	4819	5028	1	16
6615013517337	4819	5030	2	32
6605010940775	4819	5031	2	32
6605010424831	4819	5032	4	64
6605010424831	4819	5033	8	128
6615010154794	4819	5034	2	32
6605010424831	4819	5035	2	32
6620001249515	4819	5037	2	32
6615009732218	4819	5038	2	32
6685010482889	4819	5039	2	32
5826010329930	4819	5040	2	32
6610001342260	4819	5041	4	64
6605010940775	4819	5042	2	32
5836010512886	4819	5045	2	32
6610003293495	4819	5046	2	32
5865011003770	4819	5047	4	64
6615005759682	4819	5048	1	16
6610005357722	4819	5053	2	32
6610005357722	4819	5054	4	64
6605001491134	4819	5055	2	32
6605010424831	4819	5056	2	32
6605001491134	4819	5058	1	16
5841012029769	4830	4343	2	32
5945011709363	4830	4353	1	16
5985012122950	4830	4354	1	16
6625011146771	4830	4355	1	16
5998011896233	4830	4362	4	64
5826005051873	4830	4363	2	32
5985012827891	4830	5003	1	16
6605005012379	4830	5004	2	32
5985012122950	4830	5005	1	16

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5895013102157	4830	5006	2	32
5895011435443	4830	5010	2	32
5895005391911	4830	5011	2	32
7025011963702	4830	5012	3	48
5841012827093	4830	5013	3	48
5999010803978	4830	5017	2	32
5826010409798	4830	5018	2	32
5985012122950	4830	5019	1	16
5945011709363	4830	5020	6	96
6625011146771	4830	5023	1	16
6605005012379	4830	5023	1	16
5895011126380	4830	5024	2	32
6615013619746	4830	5025	1	16
5895011435443	4830	5026	1	16
6610013081859	4830	5027	2	32
5895001602198	4830	5027	1	16
1270012566538	4830	5030	1	16
5895013102157	4830	5032	2	32
5895013102157	4830	5033	4	64
5841011423785	4830	5034	2	32
6615010427835	4830	5037	1	16
1270012330011	4830	5038	2	32
1270012383662	4830	5039	2	32
5836010512886	4830	5040	2	32
1270013333608	4830	5041	2	32
7025011963702	4830	5044	2	32
1270012566538	4830	5045	1	16
4920011548792	4830	5046	3	48
1270012383662	4830	5046	2	32
6620005154541	4830	5047	1	16
5841010537872	4830	5047	1	16
6605005659797	4830	5048	1	16
5895011126380	4830	5048	4	64
5999012644636	4830	5052	1	16
5895011126380	4830	5052	2	32
5895011126380	4830	5053	6	96
5826010409798	4830	5055	2	32
5895011074586	4830	5055	2	32
5841012827093	4830	5058	2	32
5841010693756	4830	5059	2	32
1270012566538	4830	5060	2	32
5895011126380	4830	5061	3	48
5895011549125	4830	5062	2	32
5895013102157	4830	5065	2	32
6610013081859	4830	5066	2	32
5810011778545	4830	5067	2	32
5865013249103	4830	5068	2	32

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5895001602198	4830	5069	2	32
5841011435912	4830	5072	2	32
5865013249103	4830	5073	2	32
1270012330011	4830	5074	2	32
5985012122950	4830	5075	1	16
6620005154541	4830	5076	4	64
6610010996186	4830	5079	4	64
5999010803978	4830	5080	1	16
6615013619746	4830	5081	2	32
7025011963702	4830	5083	3	48
5865013249103	4830	5087	2	32
5841009743254	4830	5088	1	16
5810004490154	4852	4257	2	32
5810010508115	4852	4259	2	32
5810004490154	4852	4265	2	32
6605010903390	4852	4277	1	16
6130010548810	4852	4342	2	32
6615013619746	4852	4343	2	32
6610003494184	4852	4346	2	32
5895008100189	4852	4348	2	32
1680011596742	4852	4350	2	32
6605010424831	4852	4354	1	16
5865011003768	4852	4355	2	32
5865011003770	4852	4356	2	32
1270012330011	4852	4357	2	32
5865011449320	4852	4361	6	96
6610013081859	4852	4363	2	32
6615005759682	4852	4364	2	32
5810012737820	4852	5003	2	32
6605010940775	4852	5005	2	32
5810000613386	4852	5005	6	96
6680011033419	4852	5006	4	64
6610005357722	4852	5009	2	32
7025010933267	4852	5010	2	32
6610000000122	4852	5011	2	32
1270012330011	4852	5012	4	64
5930010920386	4852	5012	2	32
6610001600905	4852	5013	2	32
6695013434006	4852	5017	2	32
6615003036728	4852	5018	2	32
5810000613386	4852	5018	4	64
6685010482889	4852	5019	2	32
1680011390166	4852	5019	2	32
6605011081329	4852	5020	2	32
7025011726541	4852	5020	2	32
1290012403376	4852	5021	1	16

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6615013246374	4852	5024	1	16
6645000763050	4852	5025	1	16
5821012272153	4852	5025	1	16
5821012272153	4852	5025	1	16
5821012287058	4852	5026	3	48
1270012330011	4852	5030	1	16
5865012556889	4852	5030	2	32
5930010920386	4852	5031	2	32
6610003494184	4852	5031	4	64
6605001491134	4852	5032	2	32
5930010920386	4852	5033	2	32
5821011015333	4852	5033	3	48
1270012566538	4852	5037	2	32
1270010469884	4852	5038	4	64
5895011126380	4852	5039	4	64
6680010928262	4852	5040	2	32
5998011896233	4852	5041	2	32
6615002624314	4852	5044	2	32
6610007198446	4852	5045	2	32
6625011938861	4852	5045	2	32
6620012652887	4852	5046	1	16
1260012511150	4852	5046	2	32
1270012319800	4852	5047	4	64
5836010512886	4852	5048	2	32
5895011126380	4852	5048	2	32
5821010569617	4852	5052	1	16
5821010569617	4852	5052	2	32
6645001506526	4852	5053	2	32
6605001491134	4852	5053	2	32
5821012287058	4852	5054	2	32
6615013517337	4852	5054	1	16
5836010512886	4852	5055	2	32
6605010940775	4852	5055	1	16
6615013619746	4852	5058	1	16
6610000000122	4852	5059	2	32
5930010920386	4852	5060	2	32
5895011126380	4852	5061	2	32
6150012505539	4852	5062	1	16
5821012287058	4852	5065	2	32
5930010920386	4852	5066	2	32
6615001377514	4852	5067	2	32
6610003142480	4852	5068	2	32
1660011374105	4852	5069	2	32
1270012684611	4852	5072	2	32
6610010750673	4852	5073	1	16
5895011126380	4852	5074	2	32
6605010424831	4852	5075	2	32

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5821012287058	4852	5076	2	32
5821012287058	4852	5079	2	32
6610003494184	4852	5080	2	32
6340003327300	4852	5081	2	32
6610003494184	4852	5082	2	32
1270012383662	4852	5083	2	32
5895011074586	4852	5087	2	32
6610010996186	4852	5088	2	32
5810012737820	4855	4270	2	32
5810010509968	4855	4325	4	64
6610010215070	4855	4333	2	32
6615004809422	4855	4336	2	32
5895011488852	4855	4340	2	32
5841012412292	4855	4346	2	32
5895010550392	4855	4347	1	16
5985008840704	4855	4350	1	16
5985003495877	4855	4356	1	16
6610010215070	4855	4357	1	16
6610010200131	4855	4361	1	16
5985013194675	4855	4362	1	16
1290011103806	4855	4363	2	32
5810010509968	4855	4363	2	32
5960012372335	4855	5003	2	32
5841013396857	4855	5004	4	64
5895012090144	4855	5005	2	32
5841012860706	4855	5006	6	96
6605010972426	4855	5010	2	32
5895012410075	4855	5011	2	32
6610010200131	4855	5012	4	64
1270011002302	4855	5013	2	32
5841013396857	4855	5017	3	48
6610010200131	4855	5018	6	96
5985008840704	4855	5018	1	16
6610010200131	4855	5019	6	96
1270004512162	4855	5020	6	96
5831005391714	4855	5020	2	32
6610010200131	4855	5023	2	32
6610010200131	4855	5024	4	64
5895010550392	4855	5025	2	32
6605010972426	4855	5026	2	32
5841010568647	4855	5026	2	32
5865011086511	4855	5027	2	32
6610010215070	4855	5027	1	16
6615004056460	4855	5030	2	32
5841000977252	4855	5031	6	96
6605010976221	4855	5032	2	32

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5985003495877	4855	5033	2	32
5831001025583	4855	5034	4	64
6610010200131	4855	5037	4	64
5895012090144	4855	5038	2	32
5841013396857	4855	5039	2	32
6610010200131	4855	5040	4	64
5895000894522	4855	5041	4	64
5985003495877	4855	5044	4	64
6615004056460	4855	5045	2	32
5895000894522	4855	5046	1	16
5960012372335	4855	5047	2	32
5841013396857	4855	5048	2	32
5985003495877	4855	5052	2	32
6610010200131	4855	5053	2	32
6615004056460	4855	5055	1	16
5841013396857	4855	5056	1	16
5895000894522	4855	5058	2	32
6615004056460	4855	5058	1	16
5895000894522	4855	5060	2	32
5915010558592	4855	5065	2	32
5895000894522	4855	5066	2	32
5821012587579	4855	5068	2	32
5915010558592	4855	5075	2	32
5821012587579	4855	5076	2	32
5821012287058	4855	5080	2	32
6625004713174	4855	5081	2	32
5821012287058	4855	5087	3	48
5895011287267	4877	4252	2	32
5810010508115	4877	4327	1	16
5895011631762	4877	4336	2	32
5810012737820	4877	4340	2	32
6695012013554	4877	4343	1	16
6615005759682	4877	4343	2	32
5826010121938	4877	4354	1	16
5821013123525	4877	4355	1	16
5831008802834	4877	4356	2	32
5810004490154	4877	4357	2	32
5826010121938	4877	4363	5	80
5821011015333	4877	5004	1	16
5826010409798	4877	5005	2	32
5826010121919	4877	5009	1	16
6610010750673	4877	5010	1	16
5826010409798	4877	5011	3	48
6615005759682	4877	5013	1	16
6615005759682	4877	5013	1	16
6680010928262	4877	5018	2	32

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5821010704695	4877	5019	4	64
5826005053094	4877	5020	2	32
5895011126380	4877	5024	2	32
5826010121938	4877	5026	2	32
5895011126380	4877	5027	8	128
6620005154541	4877	5030	1	16
5895009992411	4877	5031	2	32
1270010801059	4877	5032	2	32
5821010621019	4877	5034	2	32
6680010928262	4877	5037	2	32
4920011548820	4877	5039	3	48
5826010121938	4877	5040	2	32
5826002411011	4877	5041	2	32
5895013102157	4877	5044	2	32
5810012737820	4877	5045	1	16
5865011106043	4877	5046	2	32
1270010940527	4877	5046	1	16
5865011106043	4877	5052	2	32
5821010704695	4877	5053	2	32
6615005679423	4877	5058	2	32
5895011126380	4877	5059	2	32
6615009732218	4877	5062	2	32
5826010409798	4877	5065	2	32
5985012827891	4877	5068	1	16
1270011126862	4877	5072	3	48
6680010928262	4877	5075	2	32
5895011287267	4877	5080	2	32
6680010928262	4877	5081	2	32
6615005679423	4877	5082	2	32
5821010621019	4877	5083	2	32
5826002411011	4877	5086	2	32
5895011126380	4877	5088	2	32
5826006259201	4877	5089	1	16
5810010508115	4887	4243	2	32
1270013093077	4887	4256	1	16
5810012737820	4887	4297	2	32
1270013093077	4887	4341	1	16
6340003327300	4887	4354	1	16
1270012319800	4887	4357	1	16
1290011091499	4887	4361	3	48
1270011997430	4887	4361	2	32
5895011126380	4887	4362	4	64
5836010512886	4887	4362	1	16
6615011273160	4887	4363	2	32
1270012319800	4887	4365	3	48
5998011896233	4887	5003	2	32

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5865013249103	4887	5004	4	64
7025011963702	4887	5005	3	48
1270012330011	4887	5006	4	64
5895011074586	4887	5009	2	32
6340003327300	4887	5010	4	64
1270012330011	4887	5011	4	64
1270012330011	4887	5012	4	64
6615010427834	4887	5013	2	32
6610013081859	4887	5017	2	32
6625011938861	4887	5018	1	16
5810010508115	4887	5018	2	32
5998011896233	4887	5019	2	32
5985012122950	4887	5019	2	32
5998011896233	4887	5020	2	32
6610003494184	4887	5020	2	32
5998011896233	4887	5021	2	32
5895011420803	4887	5024	3	48
5985012122950	4887	5024	1	16
5998011896233	4887	5025	2	32
5895012489012	4887	5026	3	48
5865010805675	4887	5026	1	16
6625011938861	4887	5027	1	16
1270012383662	4887	5027	2	32
5895011074586	4887	5030	2	32
5985012122950	4887	5031	1	16
5998011896233	4887	5031	6	96
6610003494184	4887	5032	2	32
1270012383662	4887	5032	4	64
5998011896233	4887	5033	4	64
1270012330011	4887	5034	1	16
1270012330011	4887	5034	3	48
6605010424831	4887	5037	4	64
5998011896233	4887	5038	4	64
6150012505539	4887	5039	1	16
1290011091499	4887	5039	8	128
5985012122950	4887	5040	1	16
7025011963702	4887	5040	6	96
5895011074586	4887	5041	2	32
5998011896233	4887	5041	4	64
5998011896233	4887	5044	4	64
5985012122950	4887	5045	1	16
5999010803978	4887	5045	3	48
5985012122950	4887	5046	1	16
1290011091499	4887	5046	2	32
1270012383662	4887	5047	6	96
5895011074586	4887	5048	4	64
5998011896233	4887	5048	6	96

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5895011549125	4887	5052	2	32
1290011091499	4887	5053	2	32
5985012122950	4887	5054	2	32
5998011896233	4887	5054	3	48
6340003327300	4887	5055	2	32
7025011963702	4887	5055	2	32
5998011896233	4887	5058	4	64
7025011963702	4887	5060	6	96
1290011091499	4887	5061	6	96
5998011896233	4887	5062	10	160
5998011896233	4887	5065	5	80
5895013102157	4887	5066	2	32
5998013309073	4887	5067	2	32
5998011896233	4887	5068	6	96
5865013249103	4887	5069	4	64
1270013659471	4887	5073	3	48
1270012330011	4887	5074	2	32
7025011963702	4887	5075	3	48
1290011091499	4887	5076	6	96
6340003327300	4887	5079	2	32
6615013619746	4887	5080	2	32
5895011126380	4887	5081	4	64
5998011896233	4887	5082	2	32
5998011896233	4887	5083	2	32
6625011938861	4887	5086	1	16
5945011709363	4887	5087	4	64
5895012301075	4887	5088	1	16
7025011963702	4887	5089	1	16
5810012737820	4897	4325	2	32
5895011142469	4897	4349	2	32
6645009508599	4897	4355	2	32
6605005012379	4897	4356	2	32
5930011729448	4897	4357	1	16
1630010182004	4897	4363	2	32
5895012728047	4897	4364	1	16
5895000894522	4897	5003	2	32
7025011726541	4897	5003	1	16
6610001342259	4897	5004	2	32
6615010214234	4897	5005	2	32
6615009732218	4897	5009	2	32
6605001491134	4897	5010	2	32
5895013296324	4897	5011	2	32
5895011074586	4897	5012	2	32
5895010891808	4897	5012	2	32
6605010424831	4897	5013	2	32
6605993708249	4897	5017	1	16

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5821010621019	4897	5018	2	32
6610001342259	4897	5019	2	32
5895012728047	4897	5020	2	32
5841012827091	4897	5024	1	16
5841012827093	4897	5024	2	32
5841001345975	4897	5025	2	32
5895000894522	4897	5026	1	16
5895012422033	4897	5026	2	32
5895000894522	4897	5030	2	32
5821012587579	4897	5033	1	16
5895000894522	4897	5034	2	32
5821012287058	4897	5038	3	48
6605010424831	4897	5039	2	32
5826011244793	4897	5040	1	16
5821012287058	4897	5041	1	16
5895012728047	4897	5042	2	32
5836010512886	4897	5044	2	32
6610003494184	4897	5045	2	32
6610005357722	4897	5046	2	32
6605993708249	4897	5047	2	32
6615002624314	4897	5048	2	32
6610001342259	4897	5053	2	32
6605993708249	4897	5054	2	32
5985012827891	4897	5054	1	16
5841010568647	4897	5055	2	32
1270012383662	4897	5059	1	16
6610003036706	4897	5060	1	16
6620001487306	4897	5061	2	32
5895011126380	4897	5062	2	32
5826002266029	4897	5065	2	32
1270013659471	4897	5074	2	32
5826001345979	4897	5080	1	16
5821012287058	4897	5081	4	64
6625004713174	4897	5082	2	32
6610003142480	4897	5083	2	32
6610003142480	4897	5086	2	32
6605010940775	4897	5087	2	32
6620001487306	4897	5088	1	16
1660012803132	5000	4264	2	32
5810012737820	5000	4269	2	32
5836010512886	5000	4314	1	16
5810010269624	5000	4325	2	32
5826010124864	5000	4326	2	32
5985011515848	5000	4327	2	32
6625008954446	5000	4340	2	32
5841010537872	5000	4342	2	32

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6645000763050	5000	4343	2	32
5826010121938	5000	4348	4	64
5865011003770	5000	4349	2	32
1680001238167	5000	4350	2	32
5955010032850	5000	4355	2	32
6110005390411	5000	4356	2	32
6680010669003	5000	4361	2	32
6605010424831	5000	4361	4	64
6605010424831	5000	4362	2	32
6610002963574	5000	4363	6	96
6680011066215	5000	5003	4	64
6685010482889	5000	5004	2	32
5810010508115	5000	5004	2	32
6645000763050	5000	5005	2	32
5895001602198	5000	5005	2	32
6610005357722	5000	5006	2	32
5826010121938	5000	5009	2	32
5831008802834	5000	5009	2	32
6610011676617	5000	5010	2	32
6615002624314	5000	5010	2	32
5985011515848	5000	5010	2	32
6645000763050	5000	5011	4	64
6605005659797	5000	5012	1	16
1680010652355	5000	5012	2	32
6610005357722	5000	5013	2	32
6615009732218	5000	5013	2	32
1680010855984	5000	5017	2	32
6610003494184	5000	5018	2	32
5821012866543	5000	5018	2	32
6645000763050	5000	5019	2	32
6605010940775	5000	5022	2	32
6610005357722	5000	5024	2	32
6685010482889	5000	5025	2	32
5985010537675	5000	5025	1	16
6645000763050	5000	5026	4	64
6615010154794	5000	5027	1	16
6610003494184	5000	5027	1	16
6645000763050	5000	5030	1	16
6625008954446	5000	5030	2	32
6610003142480	5000	5030	2	32
6610005357722	5000	5031	2	32
6645000763050	5000	5031	2	32
6610001342259	5000	5032	2	32
6610005357722	5000	5033	2	32
6610003494184	5000	5034	2	32
6605010940775	5000	5034	2	32
5826005050793	5000	5037	2	32

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6110005390411	5000	5037	2	32
5826005356629	5000	5038	1	16
6685010482889	5000	5038	4	64
5810010508115	5000	5039	1	16
6610003293495	5000	5039	2	32
6610001342259	5000	5040	2	32
5865011003770	5000	5040	2	32
5810010508115	5000	5041	2	32
5810010508115	5000	5041	2	32
6610003494184	5000	5044	2	32
6620001487306	5000	5045	2	32
6610002963574	5000	5045	2	32
5895012728047	5000	5046	4	64
6610003142480	5000	5047	4	64
5826005050793	5000	5048	2	32
5821010621019	5000	5052	2	32
5831008802834	5000	5052	2	32
5826010121938	5000	5053	2	32
6610001342260	5000	5053	2	32
6615009732218	5000	5054	2	32
5841011435778	5000	5054	1	16
6615009732218	5000	5055	2	32
6610003142480	5000	5055	1	16
6605010940775	5000	5058	4	64
6680011066215	5000	5058	1	16
5826005356629	5000	5059	2	32
6605004479654	5000	5060	2	32
6615001377514	5000	5061	1	16
5821010621019	5000	5062	2	32
6605010940775	5000	5065	4	64
5895013296324	5000	5066	2	32
5895011736012	5000	5067	2	32
6685010482889	5000	5068	2	32
6320001342251	5000	5072	2	32
1680010325251	5000	5073	2	32
6620001487306	5000	5075	2	32
5895001602198	5000	5079	2	32
6610005357722	5000	5080	4	64
1680010855984	5000	5081	2	32
6620001487306	5000	5082	4	64
6605010424831	5000	5083	2	32
6605004479654	5000	5086	2	32
6610003494184	5000	5087	1	16
6645000763050	5000	5088	1	16
6680011033419	5000	5089	1	16
5810012737820	5004	4231	2	32

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5810012737820	5004	4298	2	32
5895000894522	5004	4307	1	16
5821012287058	5004	4308	2	32
5815011251526	5004	4333	2	32
5836010512886	5004	4336	2	32
5895011126380	5004	4347	2	32
5810000613386	5004	4353	4	64
5895011126380	5004	4355	1	16
1270012330011	5004	4356	2	32
5895011126380	5004	4361	1	16
1270010940527	5004	4362	1	16
5810004490154	5004	4362	2	32
4920011548820	5004	5003	3	48
5836010512886	5004	5004	1	16
5821013123525	5004	5006	1	16
5895011126380	5004	5009	2	32
5810012737820	5004	5009	2	32
6610013081859	5004	5010	1	16
5821013123525	5004	5011	1	16
5985012122950	5004	5012	1	16
5826010409798	5004	5013	4	64
5821010621019	5004	5017	2	32
5895012422033	5004	5018	1	16
5895011074586	5004	5020	2	32
6615013619746	5004	5023	1	16
4920011548792	5004	5023	3	48
6610010996186	5004	5026	2	32
5826010121919	5004	5031	2	32
5895013102157	5004	5032	2	32
5836010512886	5004	5034	1	16
5895011549125	5004	5034	8	128
5865010805675	5004	5037	2	32
5895011549125	5004	5038	8	128
5810004490154	5004	5040	2	32
1270011126862	5004	5044	2	32
5998011896233	5004	5045	2	32
6615005759682	5004	5046	2	32
6615005759682	5004	5047	4	64
5821012137333	5004	5048	4	64
6605010987557	5004	5048	2	32
5836010512886	5004	5052	2	32
5998011896233	5004	5052	2	32
5895012422033	5004	5053	2	32
5895011126380	5004	5054	1	16
5895011126380	5004	5054	1	16
6615013169054	5004	5055	1	16
6615013169054	5004	5055	1	16

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5865010805675	5004	5059	2	32
5821013123525	5004	5062	1	16
5821010704695	5004	5065	2	32
5985012122950	5004	5066	2	32
5895011126380	5004	5067	2	32
1290013594751	5004	5068	1	16
5998013227746	5004	5072	1	16
1270012566538	5004	5073	1	16
6615013619746	5004	5075	1	16
5895011126380	5004	5076	2	32
5826010121938	5004	5080	2	32
1270013093077	5004	5081	1	16
5821010621019	5004	5082	2	32
1270012330011	5004	5083	2	32
5826010124864	5004	5086	2	32
6605010987557	5004	5087	1	16
5895011126380	5004	5088	1	16
5930010920386	5205	4224	2	32
6605005012379	5205	4237	2	32
1270012383662	5205	4264	2	32
1270012383662	5205	4284	2	32
5810010269624	5205	4302	2	32
5836010512886	5205	4319	2	32
5945011709363	5205	4355	1	16
5810010269624	5205	5004	2	32
6625011938861	5205	5011	1	16
5895011126380	5205	5014	2	32
1270992512706	5205	5015	1	16
5810010269624	5205	5038	4	64
5930010920386	5205	5047	1	16
5826002411011	5209	4231	2	32
5841012644422	5209	4265	2	32
5831005391714	5209	4266	2	32
5841011435778	5209	4270	2	32
6625004713174	5209	4276	1	16
5831008802834	5209	4277	1	16
5841009743254	5209	4286	2	32
6645001506526	5209	4294	2	32
6645001506526	5209	4297	2	32
5841012644422	5209	4308	1	16
5810010508115	5209	4313	2	32
5895011287267	5209	4322	2	32
5985011515848	5209	4332	2	32
5841012029769	5209	4339	2	32
6615009732218	5209	4340	2	32

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5841010568647	5209	4341	2	32
5841009743254	5209	4343	4	64
6615009732218	5209	4346	2	32
5840010073959	5209	4347	1	16
6615009732218	5209	4348	2	32
6605010182181	5209	4357	2	32
6605005012379	5209	5009	1	16
6615009732218	5209	5010	2	32
5841011435912	5209	5017	2	32
5841010568647	5209	5018	20	320
5985011515848	5209	5020	2	32
5895009992411	5209	5023	1	16
5895009992411	5209	5023	1	16
5831008093180	5209	5027	2	32
5840010073959	5209	5033	4	64
5841010568647	5209	5037	2	32
5985012827892	5209	5039	1	16
5895009992411	5209	5047	1	16
6605005012379	5270	4257	2	32
5810012737820	5270	4272	2	32
5810010508115	5270	4284	4	64
5841010891064	5270	4285	2	32
6615010154794	5270	4286	2	32
5826010121919	5270	4308	2	32
5810004490154	5270	4311	1	16
6615009732218	5270	4314	2	32
5895010891808	5270	4321	2	32
1270010469884	5270	4325	2	32
5836010512886	5270	4326	2	32
1270010469884	5270	4326	4	64
6685012320794	5270	4332	2	32
6695011577072	5270	4333	1	16
5930010920386	5270	4334	2	32
6615012258139	5270	4340	4	64
6645009508599	5270	4341	2	32
5841012827090	5270	4342	1	16
6605005569318	5270	4343	2	32
1270010469884	5270	4347	4	64
6610008792788	5270	4348	2	32
5841010537872	5270	4348	2	32
6620001249515	5270	4353	2	32
6605005569318	5270	4354	2	32
5895010418257	5270	4355	2	32
5826001345972	5270	4356	2	32
5836010512886	5270	4362	2	32
1270010469884	5270	4362	1	16

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6615012253745	5270	4363	2	32
6615012261012	5270	4363	2	32
5895000894522	5270	5005	3	48
5826010127084	5270	5006	2	32
5895009992411	5270	5009	2	32
5841010781344	5270	5010	1	16
5985012827892	5270	5017	2	32
5821011038155	5270	5019	1	16
5841010781344	5270	5019	2	32
5895013455140	5270	5024	4	64
6610008792788	5270	5026	2	32
6615012261012	5270	5027	2	32
5836010512886	5270	5031	1	16
5841010891064	5270	5033	1	16
5810000613386	5284	4290	2	32
5930010920386	5284	4348	4	64
5930010920386	5284	4355	2	32
5836010512886	5284	5027	2	32
5836010512886	5284	5047	1	16
5810010000000	5294	4215	1	16
5810012737820	5294	4255	2	32
5810010508115	5294	4270	1	16
5810010842200	5294	4271	2	32
5985011515848	5294	4320	2	32
5930010920386	5294	4322	2	32
5831005235328	5294	4327	2	32
5821010621019	5294	4332	2	32
5836010512886	5294	4333	2	32
5831005235328	5294	4340	2	32
5810010842200	5294	4341	2	32
6645000763050	5294	4341	2	32
5826010121938	5294	4342	2	32
6645000763050	5294	4346	2	32
5810010508116	5294	4355	2	32
5810011731410	5294	5003	2	32
5810012737820	5294	5003	2	32
5810004490154	5294	5005	4	64
5810012737820	5294	5012	2	32
1270012383662	5294	5017	2	32
5810012737820	5294	5023	1	16
5810012737820	5294	5023	1	16
5895011631762	5294	5027	1	16
5999012644636	5294	5033	1	16
5855013055313	5294	5034	1	16
5841010918929	5294	5037	2	32

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5895011631762	5294	5037	2	32
1270010940527	5294	5041	2	32
1270011126862	5294	5046	2	32
1270011126862	5294	5054	2	32
6610010996186	5294	5060	2	32
5865010775162	5294	5062	2	32
5895011631762	5294	5065	2	32
5895012056615	5294	5067	2	32
5841010568647	5518	4235	1	16
5985010537676	5518	4238	2	32
5810000613386	5518	4322	2	32
5841010693756	5518	4336	2	32
5815010575286	5518	4341	2	32
6605005569318	5518	4343	4	64
5985012827892	5518	4348	2	32
5841012830065	5518	4349	1	16
6615009732218	5518	4354	2	32
6615009732218	5518	4355	2	32
5841001345975	5518	4356	1	16
5895000894522	5518	4361	1	16
5826010121938	5518	4362	2	32
6625008954446	5518	4363	2	32
5826001345974	5518	4364	1	16
6615012261012	5518	5003	2	32
6615012258139	5518	5004	2	32
5895000894522	5518	5006	2	32
5826001345977	5518	5007	1	16
6645001506526	5518	5009	2	32
6615009732218	5518	5009	1	16
6615012258139	5518	5010	2	32
5826006045665	5518	5011	2	32
5821012587580	5518	5012	1	16
6615012261012	5518	5013	2	32
5821012866543	5518	5017	1	16
6615012258139	5518	5018	2	32
5826001345970	5518	5020	2	32
6615012258139	5518	5021	4	64
5821011038155	5518	5023	1	16
6615009732218	5518	5023	2	32
5826001345979	5518	5024	2	32
6645009508599	5518	5024	2	32
6615012258139	5518	5025	2	32
5826012368622	5518	5025	2	32
5826001345985	5518	5026	2	32
5895001602198	5518	5026	2	32
6615012258139	5518	5027	2	32

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6645008805927	5518	5027	2	32
5826012368622	5518	5030	1	16
6645001506526	5518	5031	2	32
5841012830065	5518	5032	2	32
5841010568647	5518	5032	2	32
6615012261012	5518	5033	2	32
5841012830065	5518	5034	2	32
6605005012379	5518	5035	1	16
5821010621019	5518	5035	6	96
5985010537675	5518	5037	1	16
5985010537675	5518	5037	1	16
5865011106043	5518	5038	6	96
6615011382369	5518	5038	2	32
5826009178679	5518	5039	4	64
5841010568647	5518	5040	2	32
5985010537675	5518	5041	2	32
5821010621019	5518	5041	2	32
6605008985597	5518	5042	2	32
6615009732218	5518	5045	2	32
5821010621019	5518	5045	2	32
6620005154541	5518	5046	2	32
6605006202801	5518	5046	4	64
5895000894522	5518	5047	4	64
5985012827891	5518	5048	1	16
5865012340860	5518	5048	2	32
5895000894522	5518	5049	2	32
5865011106043	5518	5052	2	32
6615009732218	5518	5054	2	32
5821011038155	5518	5054	1	16
5895000894522	5518	5055	1	16
5895000894522	5518	5055	1	16
5826001345977	5518	5056	2	32
5895000894522	5518	5059	1	16
5821012287058	5518	5060	2	32
5841012827093	5518	5061	2	32
5895000894522	5518	5062	2	32
5821010621019	5518	5063	3	48
5831005195883	5518	5066	2	32
5841010568647	5518	5067	3	48
5821010621019	5518	5068	4	64
5826001345978	5518	5069	1	16
5826001345984	5518	5072	1	16
5841012827090	5518	5074	1	16
5895000894522	5518	5075	2	32
6615012261012	5518	5076	2	32
6605005012379	5518	5077	2	32
6615011382369	5518	5079	4	64

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5895000894522	5518	5080	2	32
6615012258241	5518	5081	2	32
5895000894522	5518	5082	2	32
6615012261012	5518	5083	2	32
5895000894522	5518	5084	2	32
5821011038155	5518	5087	2	32
5831005235328	5612	4307	2	32
1270013093077	5612	4341	4	64
5826010121938	5612	5013	2	32
5841010537872	5612	5026	1	16
1270997468162	5612	5037	1	16
6605012562380	5612	5046	2	32
6620005154541	5612	5047	2	32
5895013102157	5612	5048	2	32
6620005154541	5612	5052	2	32
5841011435912	5612	5053	2	32
5841011435910	5612	5054	2	32
5895013102157	5612	5055	2	32
5895001602198	5612	5058	3	48
5826010121938	5612	5059	2	32
5895001602198	5612	5060	2	32
5821010621019	5612	5061	2	32
5895001602198	5612	5065	2	32
5895001602198	5612	5066	2	32
5895011631762	5612	5068	2	32
6605006719631	5612	5069	2	32
5915010558592	5612	5073	2	32
5841011423785	5612	5076	1	16
5895001602198	5612	5081	4	64
5895001602198	5612	5082	2	32
6615013169054	5621	4252	2	32
6615013169054	5621	4255	2	32
6605993708249	5621	4293	2	32
5810010508115	5621	4301	2	32
1680011596742	5621	4319	2	32
6685010482889	5621	4319	2	32
6110010498639	5621	4326	1	16
6610010750673	5621	4327	1	16
5821010704695	5621	4332	2	32
5826010409798	5621	4332	2	32
6615003036728	5621	4333	2	32
6680010928262	5621	4335	2	32
6340003327300	5621	4335	2	32
5895012728047	5621	4339	2	32
1270011126862	5621	4339	1	16

Appendix D: NMCS Hours

6695013434006	5621	4340	2	32
6620001249515	5621	4341	4	64
6610005357722	5621	4346	2	32
5826010409798	5621	4346	2	32
5895013102157	5621	4348	2	32
6110010498639	5621	4348	1	16
6610005357722	5621	4349	2	32
6615003036728	5621	4353	2	32
6615013169054	5621	4356	2	32
1270012383662	5621	4361	1	16
6615003036730	5621	4361	2	32
1260012511150	5621	4362	2	32
7025011963702	5621	4363	3	48
5821010704695	5621	4363	2	32
5945011709363	5621	5003	1	16
6610005357722	5621	5003	2	32
5998011896233	5621	5005	2	32
6615013169054	5621	5005	2	32
6695013434006	5621	5005	2	32
6605993708249	5621	5006	1	16
5895011420803	5621	5006	2	32
6610001342259	5621	5006	2	32
5998011896233	5621	5010	2	32
6695013434006	5621	5010	2	32
6610002963574	5621	5012	1	16
5985012122950	5621	5013	1	16
5821010704695	5621	5020	2	32
6610010996186	5621	5023	4	64
5821010704695	5621	5023	2	32
7025011963702	5621	5024	2	32
5826010409798	5621	5026	1	16
6620001249515	5621	5026	2	32
6130010548810	5621	5027	2	32
7025011963702	5621	5028	2	32
5945011709363	5621	5030	1	16
6615013169054	5621	5031	2	32
5998011896233	5621	5031	1	16
6610010996186	5621	5032	2	32
5895011420803	5621	5034	2	32
1270010940527	5621	5034	1	16
6610007198446	5621	5037	2	32
6605993708249	5621	5038	2	32
1270012383662	5621	5039	2	32
6680010928262	5621	5040	2	32
6615013169054	5621	5046	2	32
5821010569617	5621	5047	1	16
6610013081859	5621	5048	1	16

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6615005679423	5621	5052	2	32
6615003036728	5621	5053	2	32
5895011631762	5621	5057	1	16
6605993708249	5621	5058	2	32
6605993708249	5621	5059	2	32
5895011420803	5621	5060	2	32
6605010903390	5621	5062	2	32
6615005679423	5621	5065	2	32
6610003494184	5621	5066	2	32
7025011963702	5621	5067	3	48
6610010996186	5621	5068	2	32
6625011938861	5621	5072	1	16
6625011938861	5621	5073	1	16
5998011896233	5621	5075	2	32
6605993708249	5621	5076	2	32
6605993708249	5621	5079	2	32
6620001249515	5621	5081	2	32
1270012330011	5621	5082	1	16
5998011896233	5621	5083	2	32
5821012137333	5682	4291	1	16
6610013081859	5682	4312	1	16
5999010803978	5682	4314	1	16
5821010621019	5682	4333	2	32
5895011074586	5682	4336	2	32
5865010805675	5682	4340	2	32
5895009992411	5682	4341	2	32
5865010805675	5682	4342	2	32
5865010805675	5682	4347	2	32
5998011896233	5682	4348	1	16
5999010803978	5682	4350	2	32
6615010427834	5682	4353	1	16
1260012511150	5682	4356	2	32
1290012978068	5682	4361	1	16
5895013102157	5682	4362	2	32
1270013093077	5682	5004	1	16
5998011896233	5682	5005	2	32
7025011963702	5682	5006	2	32
5998011896233	5682	5009	6	96
6610013081859	5682	5009	2	32
1260012511150	5682	5010	2	32
5998011896233	5682	5011	5	80
6625011938861	5682	5012	1	16
6625011938861	5682	5013	1	16
7025011963702	5682	5017	2	32
5895011549125	5682	5017	2	32
5821013123525	5682	5019	1	16

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5895011126380	5682	5023	2	32
5895011549125	5682	5026	6	96
1270012330011	5682	5027	1	16
1270012566538	5682	5031	2	32
1260012511150	5682	5034	2	32
7025011963702	5682	5037	3	48
6615013619746	5682	5038	1	16
6625011938861	5682	5040	2	32
5895011126380	5682	5044	4	64
1290012978068	5682	5045	1	16
6615013619746	5682	5046	1	16
1290012978068	5682	5047	1	16
5895011420803	5682	5048	1	16
6610007269394	6291	4347	2	32
6695011577072	6291	4356	2	32
5826009902332	6291	4357	1	16
6645009508599	6291	4363	2	32
5826001345977	6291	5005	1	16
6645009508599	6291	5027	4	64
6615012258139	6291	5046	2	32
6615012258139	6291	5073	2	32
5826005053094	6291	5075	2	32
5826001345985	6291	5083	1	16
6615003036728	6371	4248	1	16
5895010891808	6371	4354	6	96
6610002963574	6371	4362	2	32
6605010940775	6371	5003	2	32
6610011676617	6371	5004	2	32
1270010405948	6371	5005	2	32
6610003293495	6371	5009	2	32
5895010959593	6371	5011	2	32
6340003327300	6371	5020	2	32
6685010482889	6371	5023	2	32
6610003142480	6371	5024	2	32
6615001377514	6371	5025	2	32
1270002135877	6371	5031	2	32
6615010844995	6371	5033	2	32
6620001249515	6371	5040	2	32
6620001249515	6371	5041	2	32
6615001377514	6371	5046	2	32
6605010424831	6371	5059	2	32
6610005357722	6371	5060	2	32
6610005357722	6371	5061	2	32
6610003142480	6371	5065	2	32
6620005154541	6371	5067	2	32

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6615001377514	6371	5068	2	32
5836010512886	6371	5072	2	32
6620001249515	6371	5074	2	32
5821011948160	6371	5075	2	32
5985012122950	6511	4314	2	32
5985012122950	6511	4355	2	32
7025011963702	6511	4356	2	32
7025011963702	6511	5013	4	64
1270012352370	6511	5031	3	48
6615011273160	6511	5032	1	16
7025011963702	6511	5040	3	48
6625011938861	6511	5048	2	32
6625011938861	6511	5052	2	32
1270992512706	6511	5061	2	32
6645001506526	6605	4363	2	32
6645001506526	6605	5023	1	16
6645001506526	6605	5023	1	16
5826005053094	6605	5030	2	32
5865012340860	6605	5037	2	32
6130010568665	6605	5058	2	32
5841010042227	6605	5065	2	32
5810011790665	6606	4308	2	32
6610000180682	6606	4349	1	16
6610011326661	6606	4363	1	16
5895011790505	6606	4364	2	32
5826002265171	6606	5004	2	32
5895000894521	6606	5006	2	32
5998012898541	6606	5009	1	16
1630011897830	6606	5009	1	16
5810000613386	6606	5010	2	32
4920011174366	6606	5011	2	32
6615010453888	6606	5020	2	32
5895000894521	6606	5021	1	16
4920011185129	6606	5025	2	32
6610001691601	6606	5026	1	16
6610001691601	6606	5026	1	16
4920005639126	6606	5027	1	16
4920005639126	6606	5027	1	16
5821012287058	6606	5030	2	32
5810000613386	6606	5031	2	32
6615011877821	6606	5034	2	32
4920011185129	6606	5038	2	32
5821012287058	6606	5039	3	48
5810000613386	6606	5041	2	32

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5810000613386	6606	5044	2	32
5821013117551	6606	5045	1	16
6610011326660	6606	5046	2	32
6615010471190	6606	5047	2	32
6615010471190	6606	5048	2	32
5821012287058	6606	5052	1	16
5998011908294	6606	5053	2	32
5826010121938	6606	5056	2	32
6110011976781	6606	5056	2	32
5821012287058	6606	5059	2	32
6610005061745	6606	5060	2	32
6610011326660	6606	5061	2	32
5998011917007	6606	5062	2	32
6615004117976	6606	5065	2	32
5895000894521	6606	5066	2	32
5821012287058	6606	5067	2	32
5821012287058	6606	5068	2	32
6615010471190	6606	5069	2	32
6610011326661	6606	5072	2	32
5998011909306	6606	5073	2	32
6610001691601	6606	5074	2	32
6610001691601	6606	5076	2	32
5826010121919	6606	5079	2	32
5895008809688	6606	5081	2	32
6610001691601	6606	5082	1	16
6615010453888	6606	5083	2	32
6615004117976	6606	5086	2	32
6680011016438	6606	5088	1	16
6615004117976	6606	5089	1	16
5810010269624	6618	4321	2	32
5810010508115	6618	4321	2	32
5831005391714	6618	4346	2	32
5821010621019	6618	4347	2	32
5841012827093	6618	4355	2	32
5831005391714	6618	5009	2	32
5841012827093	6618	5011	2	32
5831008802834	6618	5012	2	32
5831005391714	6618	5023	2	32
5821012287058	6618	5027	2	32
5821010621019	6618	5032	2	32
5821012287058	6618	5039	2	32
5831008802834	6618	5046	2	32
5841012827093	6618	5065	2	32
5985012827892	6618	5073	2	32
5841012827090	6618	5075	2	32

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6615009732218	6633	5033	2	32
6645009508599	6633	5055	2	32
5841011435912	6633	5062	4	64
5826010124864	6633	5079	2	32
6645001506526	6637	5017	2	32
5826002411011	6637	5018	1	16
5821010621019	6637	5026	2	32
5826010121938	6637	5031	2	32
5895001602198	6637	5033	2	32
5810010508115	6637	5034	2	32
5841011435912	6637	5037	2	32
6130010568665	6637	5044	1	16
5821010621019	6637	5046	2	32
5895001602198	6637	5053	2	32
6620005154541	6637	5055	2	32
6620005154541	6637	5058	2	32
5821012287058	6637	5061	2	32
5895001602198	6637	5065	4	64
5821012413149	6637	5067	2	32
5821012287058	6637	5068	2	32
5841012029769	6637	5072	2	32
5985012827891	6637	5081	1	16
6625004713174	6637	5087	1	16
5985011464630	6648	4320	2	32
1270011022962	6648	4340	2	32
5841010964833	6648	4346	1	16
1270010932256	6648	4353	4	64
1270011997430	6648	4355	4	64
6605010463533	6648	4356	2	32
6615013566851	6648	4362	1	16
6615013566851	6648	4362	1	16
5895011126380	6648	4364	6	96
6610013081859	6648	5003	2	32
1270010932256	6648	5003	1	16
1270010948505	6648	5004	2	32
1270010948505	6648	5004	2	32
1270010932256	6648	5005	4	64
1270010948505	6648	5006	2	32
1290011091499	6648	5010	4	64
1270011997430	6648	5012	2	32
5985011464630	6648	5012	1	16
1270013590877	6648	5022	4	64
5865010211647	6648	5023	2	32
1270011997430	6648	5023	4	64
5998011230046	6648	5037	4	64

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6615011273160	6648	5039	2	32
5865013249103	6656	4350	4	64
5841012918393	6656	4355	1	16
5895009992411	6656	4361	1	16
6620005154541	6656	5052	2	32
6645009508599	6656	5065	2	32
5810010508115	6670	5004	2	32
5841010931491	6670	5027	2	32
5810010508115	6675	4339	1	16
5836010512886	6675	4347	1	16
6615011273160	6675	5003	1	16
5930010920386	6675	5005	1	16
5895013102157	6675	5010	2	32
5810010508115	6675	5010	2	32
5985012122950	6675	5011	1	16
5985012122950	6675	5012	1	16
5810010508115	6675	5013	2	32
5836010512886	6675	5017	2	32
5895011126380	6675	5018	2	32
1270992512706	6675	5019	2	32
6615011273160	6675	5023	1	16
5895012301075	6675	5025	3	48
6625011938861	6675	5026	1	16
5930010920386	6675	5026	1	16
5895011549125	6675	5033	2	32
5895011074586	6675	5034	2	32
5810010508115	6675	5038	2	32
5930010920386	6675	5040	3	48
1260012511150	6675	5041	1	16
6625011938861	6675	5045	2	32
6615011496398	6675	5047	1	16
1270012352370	6675	5053	2	32
5998011480712	6675	5054	2	32
6615013246374	6675	5055	1	16
1270012330011	6675	5062	1	16
5895011435443	6675	5066	1	16
7025011963702	6675	5067	3	48
1270012330011	6675	5069	1	16
5930010920386	6675	5072	1	16
5985012122950	6675	5075	2	32
1260012511150	6675	5076	1	16
5865010211647	6675	5079	2	32
5865013249103	6675	5081	2	32
5998013227746	6675	5086	1	16

Appendix D: NMCS Hours

5810010508115	6703	4242	2	32
5810010508115	6703	4272	2	32
5810010508115	6703	4300	2	32
5810010508115	6703	4347	2	32
6645009508599	6703	5011	2	32
5821012287058	6703	5026	2	32
5841010781344	6703	5026	1	16
5821012287058	6703	5044	1	16
5841011435912	6703	5047	2	32
5826002750612	6703	5053	1	16
5821012287058	6703	5060	1	16
6645001506526	6703	5061	2	32
5841012827093	6703	5067	1	16
5810010508115	6703	5082	1	16
6645001506526	6712	4361	2	32
6645009508599	6712	5017	2	32
6645001506526	6712	5034	2	32
6620005154541	6712	5055	2	32
6620005154541	6712	5065	2	32
5826005053094	6712	5066	2	32
5821011038155	6712	5080	2	32
5895011126380	6716	4363	4	64
5895011549125	6716	5005	2	32
5998013309073	6716	5006	1	16
6615011273160	6716	5012	1	16
1270012352370	6716	5013	1	16
6610013081859	6716	5017	2	32
1290012279260	6716	5019	2	32
5865011106043	6716	5019	2	32
1290012279260	6716	5020	2	32
6615010427834	6716	5024	1	16
5998011896233	6716	5026	2	32
6615013246374	6716	5026	2	32
1260012511150	6716	5031	1	16
5998013309073	6716	5032	1	16
5985012122950	6716	5037	2	32
5895013102157	6716	5044	4	64
5998013309073	6716	5047	2	32
5895011126380	6716	5060	1	16
5985012122950	6716	5065	2	32
1270012352370	6716	5066	1	16
5895012301075	6716	5069	1	16
TOTAL NMCS HOURS				120320

Appendix E: Aircraft Supported With Two-Level Maintenance Reparables

Base	SRAN	Aircraft Type	A/OA-10	B-1B	B-2	B-52H	C-5A/B	KC-10	C-17	C/AC/HC/MC-130	C/EC/KC/RC-135A/E/R, E-3	C-141B	F-4G/RF-4C	F-15A/BC/D/E	F-16A,B/C/D	F-111F/BF-111A
Altus	4419						X				X	X				
Andrews	6511										X	X			X	
Aviano	5682														X	
Barksdale	4608		X			X										
Beale	4686															
Cannon	4855															X
Carswell	6675														X	
Castle	4672															
Charleston	4418								X			X				
Davis-Monthan	4877		X							X						
Dobbins	6703									X				X		
Dover	4497						X									
Duke Field	2823									X						
Dyess	4661			X						X						
Edwards	2805															
Eielson	5004		X								X				X	
Ellsworth	4690			X												
Elmendorf	5000									X	X			X		
Fairchild	4620										X					
Grand Forks	4659										X					
Griffiss	4616										X					
Grissom	4654										X					
Hill	2027														X	
Homestead	6648														X	
Howard	4810															
Hurlbert	4417									X						
K.I.Sawyer	4515															
Kadena	5270										X			X		
Keesler	3010									X						
Kelly	2053						X								X	
Kirtland	4469									X					X	
Kunsan	5284														X	
Langley	4800													X		
Little Rock	4460									X						
Luke	4887														X	
Malmstrom	4626										X					
March	4664							X			X	X				

Appendix E: Aircraft Supported With Two-Level Maintenance Reparables

McConnell	4621										X								
McGuire	4484							X			X	X							
Mildenhall	5518									X									
Minn-St.Paul	6633									X									
Minot	4528				X														
Misawa	5205																X		
Mitchell	6605									X	X								
Moody	4830	X								X							X		
Mt Home	4897										X			X	X				
NAS N. Orleans	6716													X	X				
Nellis	4852	X											X	X	X				
Niagara	6670									X							X		
O'Hare	6618									X	X								
Offutt	4600										X								
Osan	5294	X															X		
Patrick	2520									X									
Pease	6291		X								X								
Peterson	2500									X									
Pittsburgh	6712									X	X								
Pope	4488	X								X							X		
Portland	6371									X				X					
Ramstein	5612									X									
Robins	2067										X								
Shaw	4803	X															X		
Sheppard	3020																		
Spangdahlem	5621	X												X	X				
Tinker	2037										X								
Travis	4427				X	X			X			X							
Tyndall	4819													X					
Westover	6606					X													
Whiteman	4625	X		X															
Willow Grove	6637	X								X									
Wright Pat	2300											X							
Yokota	5209									X									
Youngstown	6656									X									
		Fleet																	
		Size																	
		Active	232	84	9	85	82	59	16	329	320	194	46	650	779	144			
		Reserve	44			9	32			139	62	36			121				
		Guard	105	11			12			215	225	16	59	140	742				
		Total	381	11	9	94	126	59	16	683	607	246	105	790	1642	144		4913	

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Vita

Captain Glenn R. Barney was born of June 2, 1955 in San Diego California. He graduated from high school in Juanita, Washington, in 1973 and enlisted in the Air Force in 1976. His first assignment was as an aircraft maintenance specialist assigned to the 320th Field Maintenance Squadron, Mather AFB, CA, Where he also attended Embry-Riddle Aeronautical University and received a Bachelor of Science degree in Professional Aeronautics in June 1985. He was then selected to attend Officer Training School (OTS) and received his commission in December 1985. He received assignments to Moody AFB, GA, and Clark AB, Republic of the Philippines, where he served a variety of positions as an aircraft maintenance officer including Assist OIC, 70th Aircraft Maintenance Unit (AMU), OIC 3rd AMU, and OIC 90th AMU. He was then assigned to Reese AFB, TX where he served as Chief of Logistics Plans and Programs and as the Installation Mobility Officer. He entered the Graduate School of Logistics and Acquisition Management, Air Force Institute of Technology, in May 1994, and has received a follow-on assignment to the Air Force Logistics Management Agency, Maintenance Directorate, Gunter Air Force Station, AL.

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13. ABSTRACT (Maximum 200 words) One of the proposals of Lean Logistics is the relocation of many inventory assets to Intermediate Supply Points (ISPs). This research investigates the effect of consolidating Two-Level Maintenance designated reparable asset inventories. The effects of interest are the potential reduction in aggregate inventory requirement and resulting savings and the effect of delayed issue of the assets on mission capability. The metric selected to measure the effect on mission capability for this study is the Not Mission Capable/Supply (NMCS) rate. A spreadsheet analysis of world-wide Two-Level Maintenance designated reparable asset demands over the study period is used to determine the effects of consolidation. The results of this study indicate that significant savings in reparable inventory requirements could be achieved through consolidation of these inventories. Further, this research indicated that the increase in NMCS rates resulting from overnight issue of the assets would be minimal. This research concludes that conditions that mandated base level stockage of reparable assets have changed and are no longer a factor in the post cold war environment. Due to these changes, and the current constraints on the defense budgets, consolidation of reparable assets is a concept with potential for significant inventory reductions and savings that should be further developed.				
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